MAKING MODERN LIVING POSSIBLE

Bedradingsschema

DHP-H

DHP-H
DHP-H Opti
DHP-H Opti Pro
DHP-H Opti Pro+

www.heating.danfoss.com

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De oorspronkelijke instructies zijn geschreven in het Engels. Andere talen zijn een vertaling van de oorspronkelijke instructies. (Richtlijn 2006/42/EG)

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Bedradingsschema DHP-H

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Bedradingsschema DHP-H

1 Legenda

1.1 Legenda

Nummer/opmerking	Beschrijving
1	Warmtepomp
3	Buitengedeelte
36	Circulatiepomp (systeem)
40	Uitbreidingskaart
50	Buitensensor
51	Aanvoersensor systeem
52	Sensor voor EM-module/retourleidingsensor
53	Startsensor warm water
55	Warmwatersensor top
62	Kamersensor
69	Shuntcircuit
71	Flowbeveiliging
115	Elektrisch verwarmingselement
117	Bijverwarming
301	Compressor
302	Brinepomp
303	Radiatorpomp
304	Circulatiepomp
305	Ventilator
306	Systeemcirculatiepomp
307	Distributiecirculatiepomp
308	Condensorpomp
309	Heetgaspomp
310	3-wegklep
311	4-wegklep
312	Bypassklep
313	Elektronische expansieklep
317	Elektrisch verwarmingselement
340	Temperatuurbeveiliging
341	Thermisch overbelastingsrelais
342	Stroomonderbreker
343	Overstroombeveiliging
344	Alarmrelais
345	Schakelaar
350	Softstart
351	Condensator
353	Lekbakverwarming
354	Compressorverwarming
355	Verwarmingskabel lekbak

Nummer/opmerking	Beschrijving
362	Shuntklepregeling
363	3-wegklep warm water
364	Shuntklep warm water
365	Aanvoerleidingsensor
366	Retourleidingsensor
367	Systeemshunt
368	Shunt distributiecircuit
369	Verwarmingsklep zwembad
370	2e pomp distributiecircuit
371	Bijverwarming olie/elektriciteit
372	Bijverwarming van bovenafdekking
373	Distributiecircuitshunt 2
374	Shuntontdooier
375	Brineklep
376	Shuntkoeling
403	Bedrijfspressostaat
405	Sensor verwarming uit
406	Kamersensor
407	HGW sensor
408	EVU
410	Warm water
411	Retoursensor verwarming
412	Brinesensor van
413	Brinesensor naar
414	Hogedrukpressostaat
415	Lagedrukpressostaat
416	Drukleidingsensor
417	Ontdooisensor
418	Sensor koudemiddel 1
419	Sensor koudemiddel 2
420	Druktransmitter
421	Zuiggassensor
422	Dauwpuntsensor
423	Sensor zwembad
424	Sensor koeling
425	Sensor buffertank
426	Sensor systeemaanvoerleiding
427	Sensor distributiecircuit 1
428	Sensor distributiecircuit 2
451	Regelaar

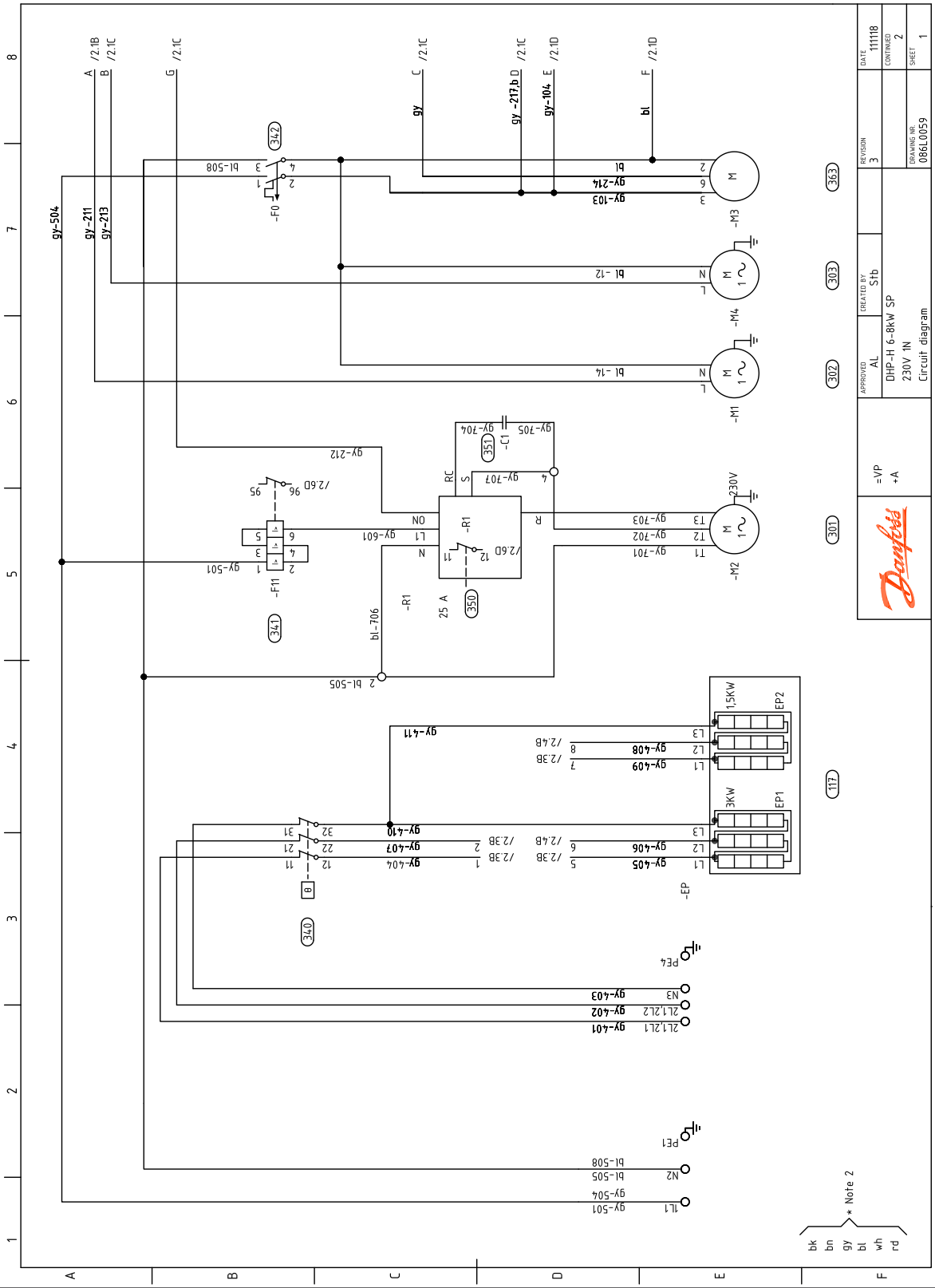
Bedradingsschema DHP-H

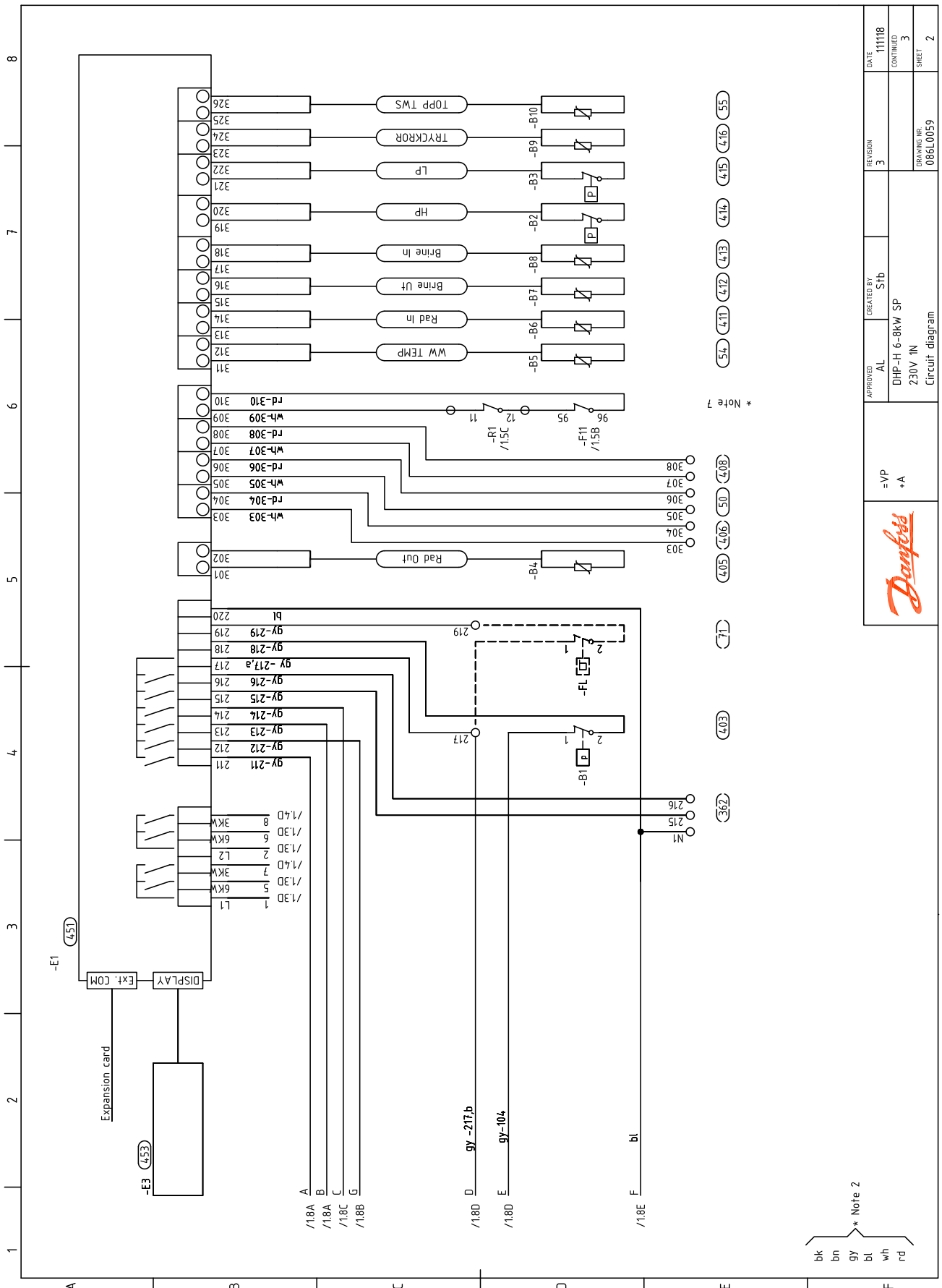
Nummer/opmerking	Beschrijving
452	I/O-regelaar
453	Display
454	Regelaar elektronische expansieklep
455	Hub-regelaar binnen
456	Stroombegrenzer
457	WM-HPC Regelmodule
458	HPC-RM Relaismodule
459	HPC-EM Expansiemodule
460	HPC-CM Koelingsmodule
461	HPC-OP Bedieningspaneel
* Opmerking 1	Doorverbinding bij levering gemonteerd
* Opmerking 2	blauw
* Opmerking 2	bruin
* Opmerking 2	grijs
* Opmerking 2	groen
* Opmerking 2	geel
* Opmerking 2	paars
* Opmerking 2	roze
* Opmerking 2	rood
* Opmerking 2	zwart
* Opmerking 2	wit
* Opmerking 3	Kan worden aangesloten op 230 V eenfase als bijverwarming is losgekoppeld.
* Opmerking 4	Bij aansluiting op 230 V eenfase moet de doorverbinding van de bijverwarming worden verwijderd.
* Opmerking 5	Verwijder doorverbinding bij gebruik van een afzonderlijke stuurstroomvoeding

Nummer/opmerking	Beschrijving
* Opmerking 6	Verwijder doorverbinding bij gebruik van een flowbeveiliging
* Opmerking 7	Overbelastingsrelais geactiveerd/gedeactiveerd
* Opmerking 8	Alarm
* Opmerking 9	Toerentalregeling
* Opmerking 10	Zorg dat alle voedingskabels zijn losgekoppeld voordat u werkzaamheden aan interne elektrische onderdelen uitvoert!
* Opmerking 11	Overbelastingsrelais ventilator
* Opmerking 12	Naar binnengedeelte
* Opmerking 13	Naar slave-unit
* Opmerking 14	Naar elektronische expansie-unit
* Opmerking 15	Elektrisch verwarmingselement of externe bijverwarming
* Opmerking 16	Potentiaalvrij contact
* Opmerking 17	Naar buitengedeelte
* Opmerking 18	Naar expansie-unit
* Opmerking 19	Communicatie
* Opmerking 20	Passieve koeling brinecircuit
* Opmerking 21	Passieve koeling radiatorcircuit
* Opmerking 22	Systeem met gecombineerde warmtebron
* Opmerking 23	Passieve koeling
* Opmerking 24	Verwijder doorverbinding bij EVU
* Opmerking 25	Constante EVU-netvoeding
* Opmerking 26	Verwijder doorverbinding indien EVU afzonderlijk wordt geleverd
* Opmerking 27	Verwijder doorverbinding bij gebruik van flowbeveiliging of pressostaat voor brine

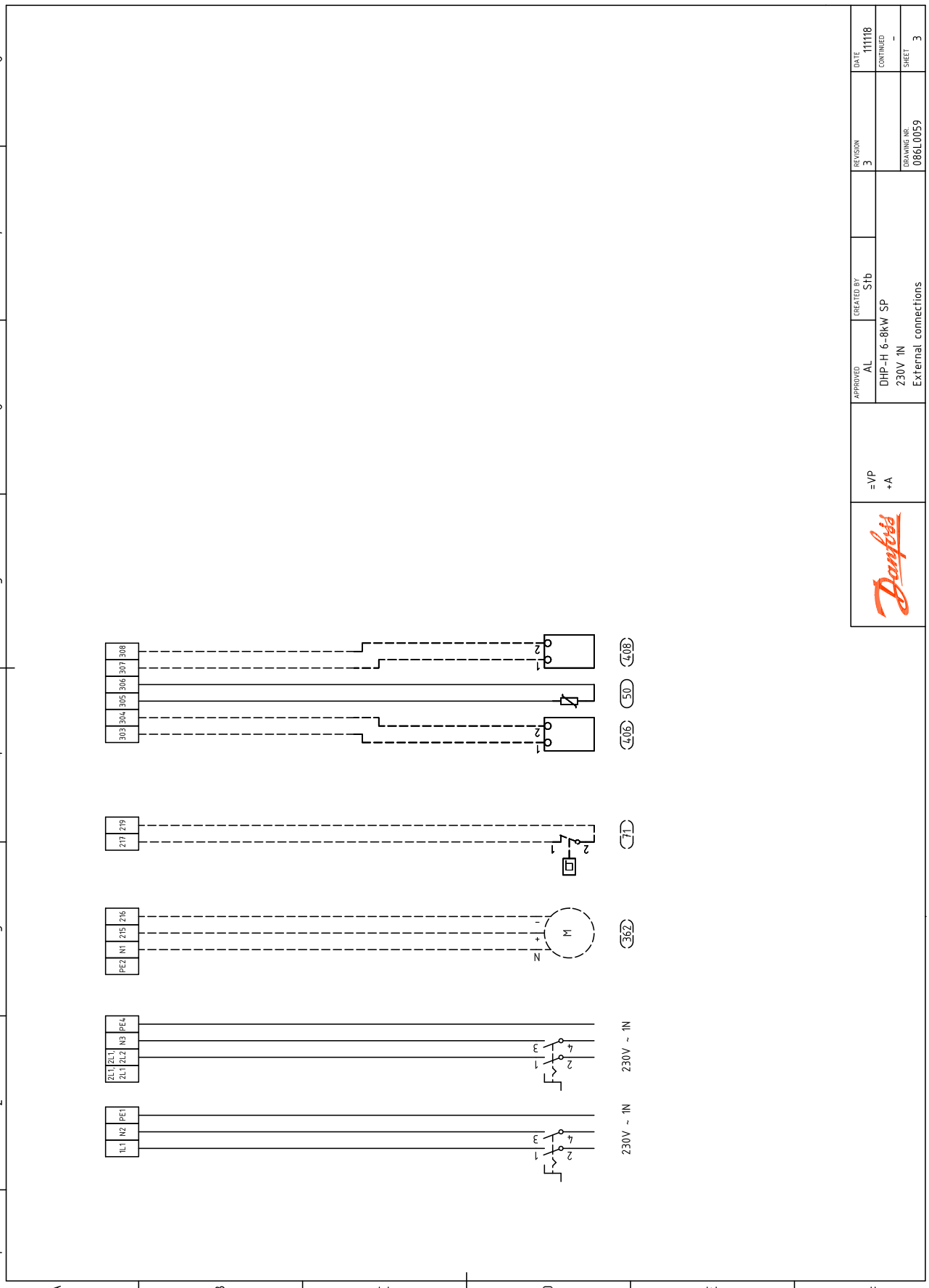
2 DHP-H

2.1 DHP-H 6-8kW 230V 1N

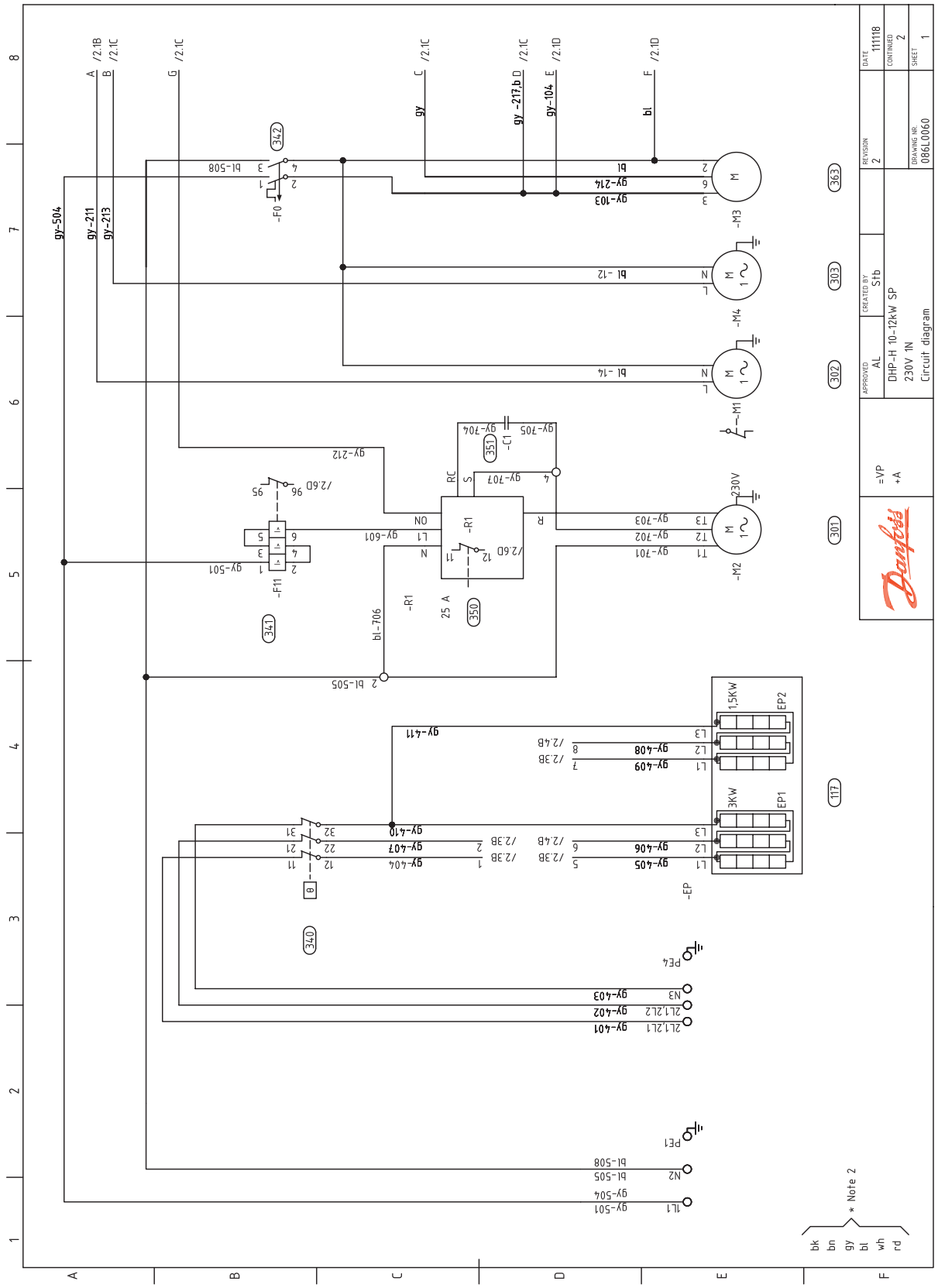


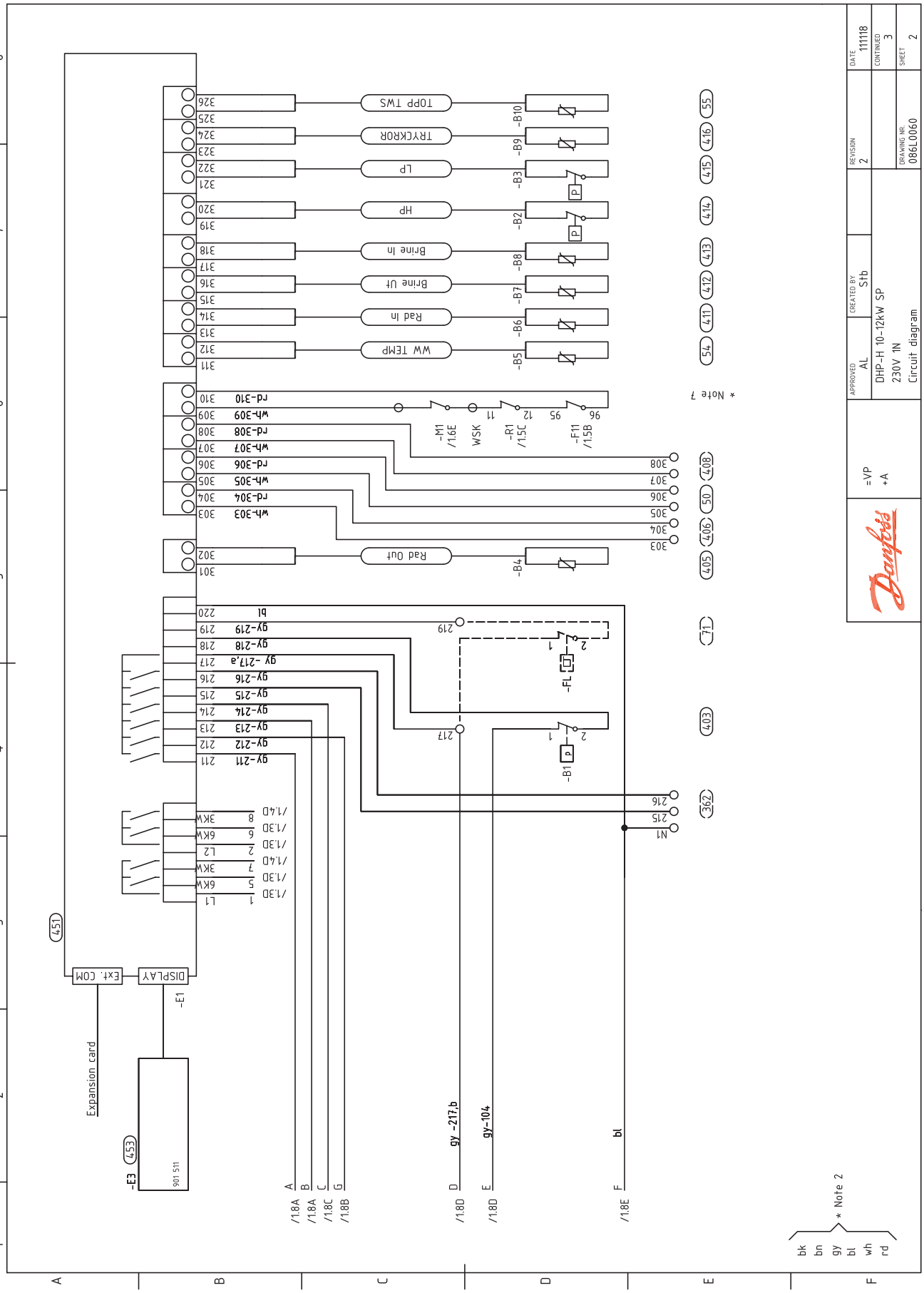

DHP-H 6-8kW SP
230V 1N
Circuit diagram
APPROVED AL
CREATED BY Stb
DRAWING NR. 086L0059
REVISION 3
DATE 111118
CONTINUED 3
SHEET 2
=VP +A
-E1
DISPLAY
Ext. COM
Expansion card
-E3
TOPP TWS
TRYCKROR
LP
HP
Brine In
Brine Ut
Rad In
WW TEMP
Rad Out
-B10
-B9
-B3
-B2
-B8
-B7
-B6
-B5
-B4
-R1 /1.5C
-F11 /1.5B
-FL
-B1
* Note 7
* Note 2
bk bn gy bl wh rd

Bedradingsschema DHP-H



2.2 DHP-H 10-12kW 230V 1N

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230V 1N
Circuit diagram
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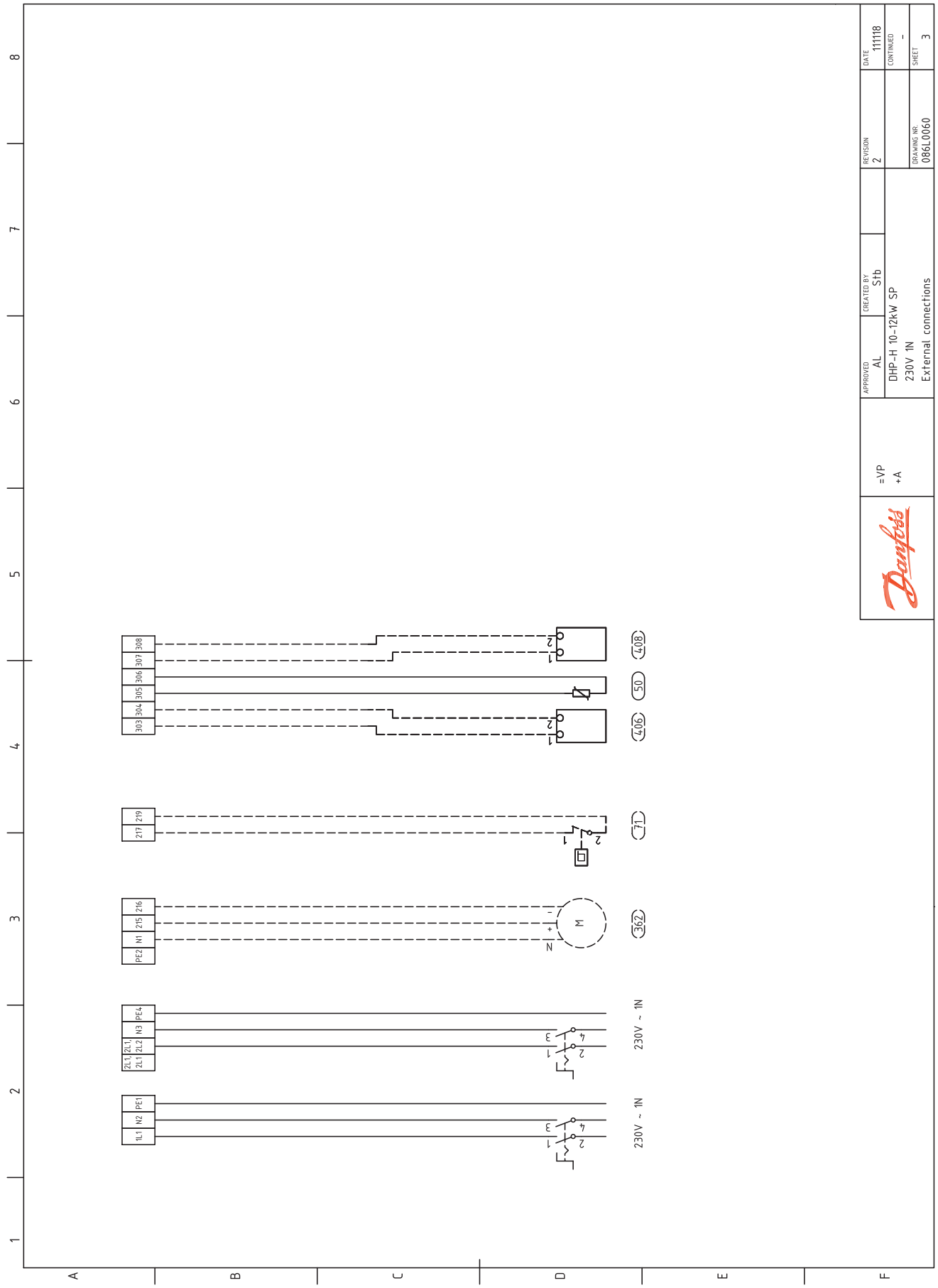
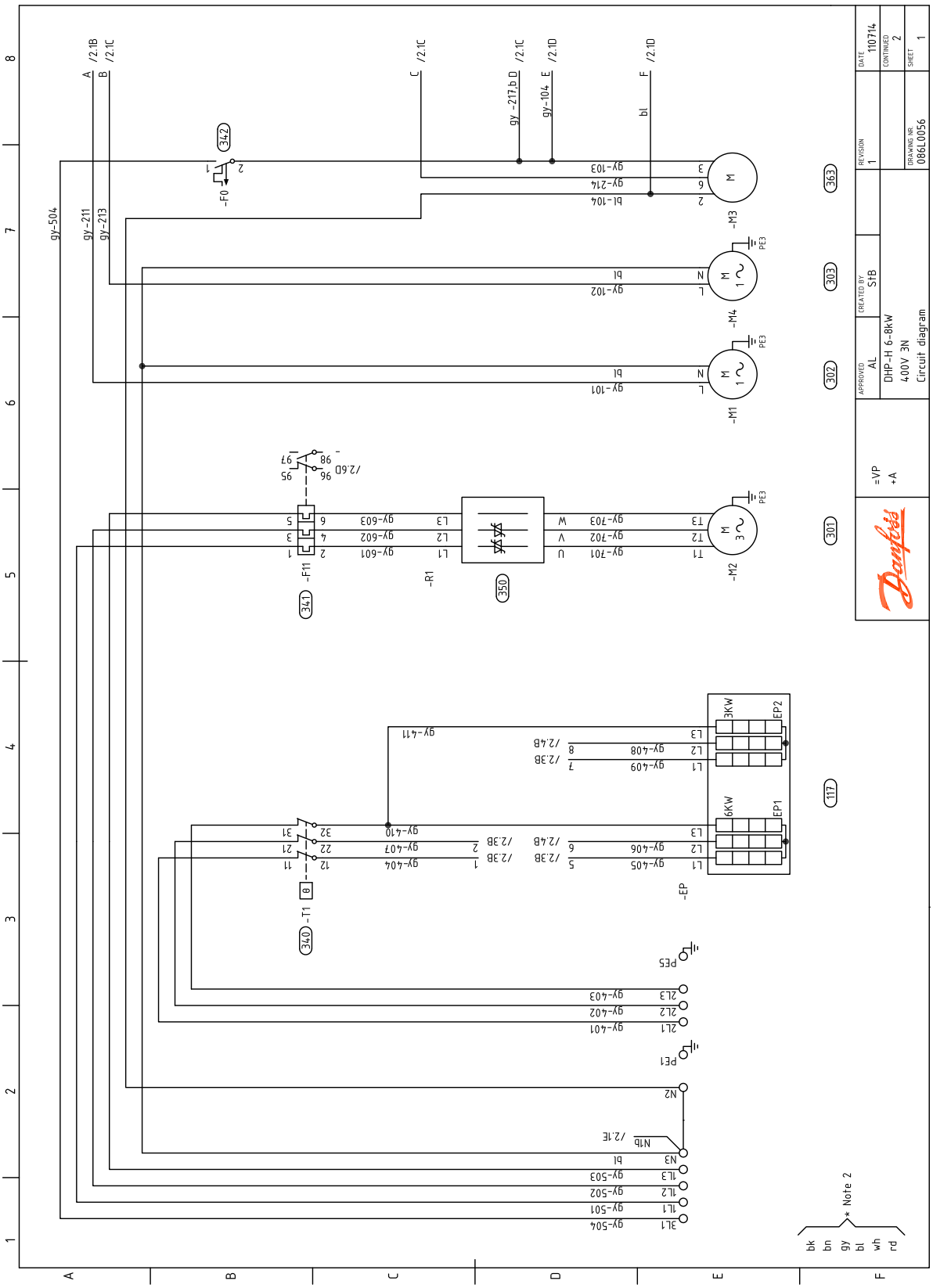
REVISION 2
DATE 111118
CONTINUED 3
SHEET 2
CREATED BY: Stb
APPROVED AL
=VP
+A
DISPLAY
Ext. COM
-E1
-E3
Expansion card
TOPP TWS
TRYCKROR
LP
HP
Brine In
Brine Ut
Rad In
WW TEMP
Rad Out
-B10
-B9
-B3
-B2
-B8
-B7
-B6
-B5
-B4
-M1
WSK
-R1
-F11
-B1
-FL
N1
* Note 7
* Note 2
bk
bn
gy
bl
wh
rd

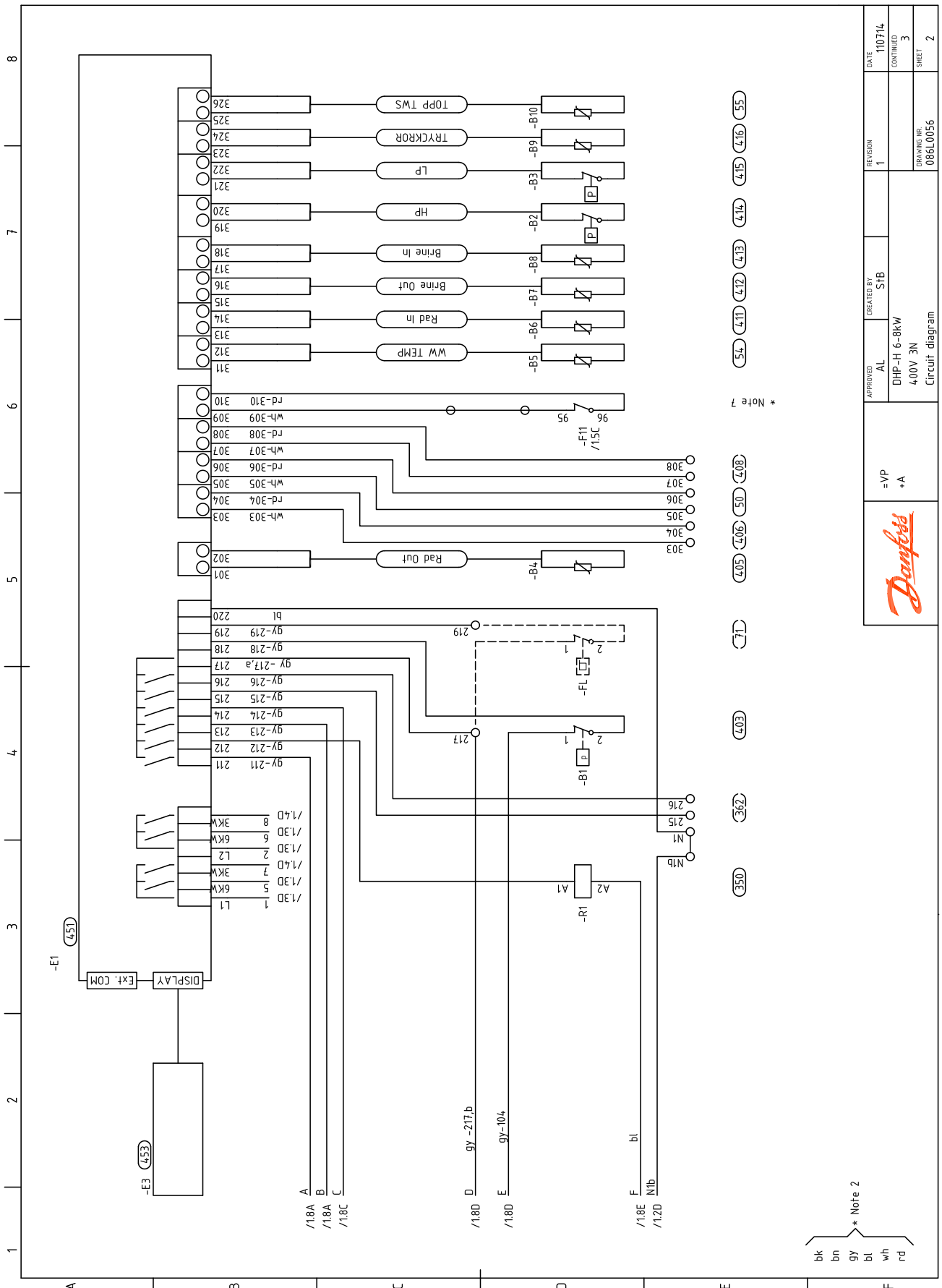
Bedradingsschema DHP-H

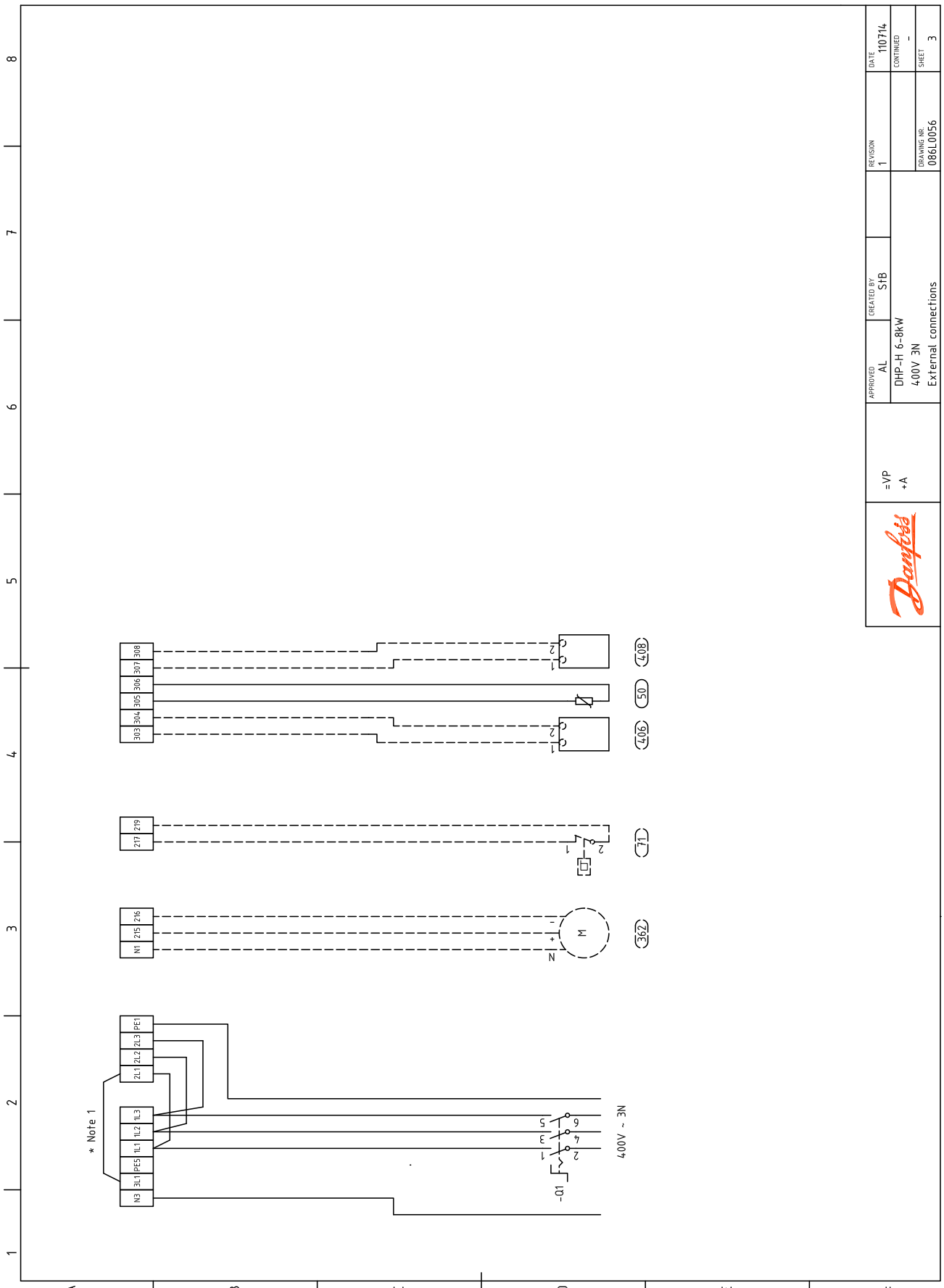


2.3 DHP-H 6-8kW 400V 3N



Bedradingsschema DHP-H




=VP
+A
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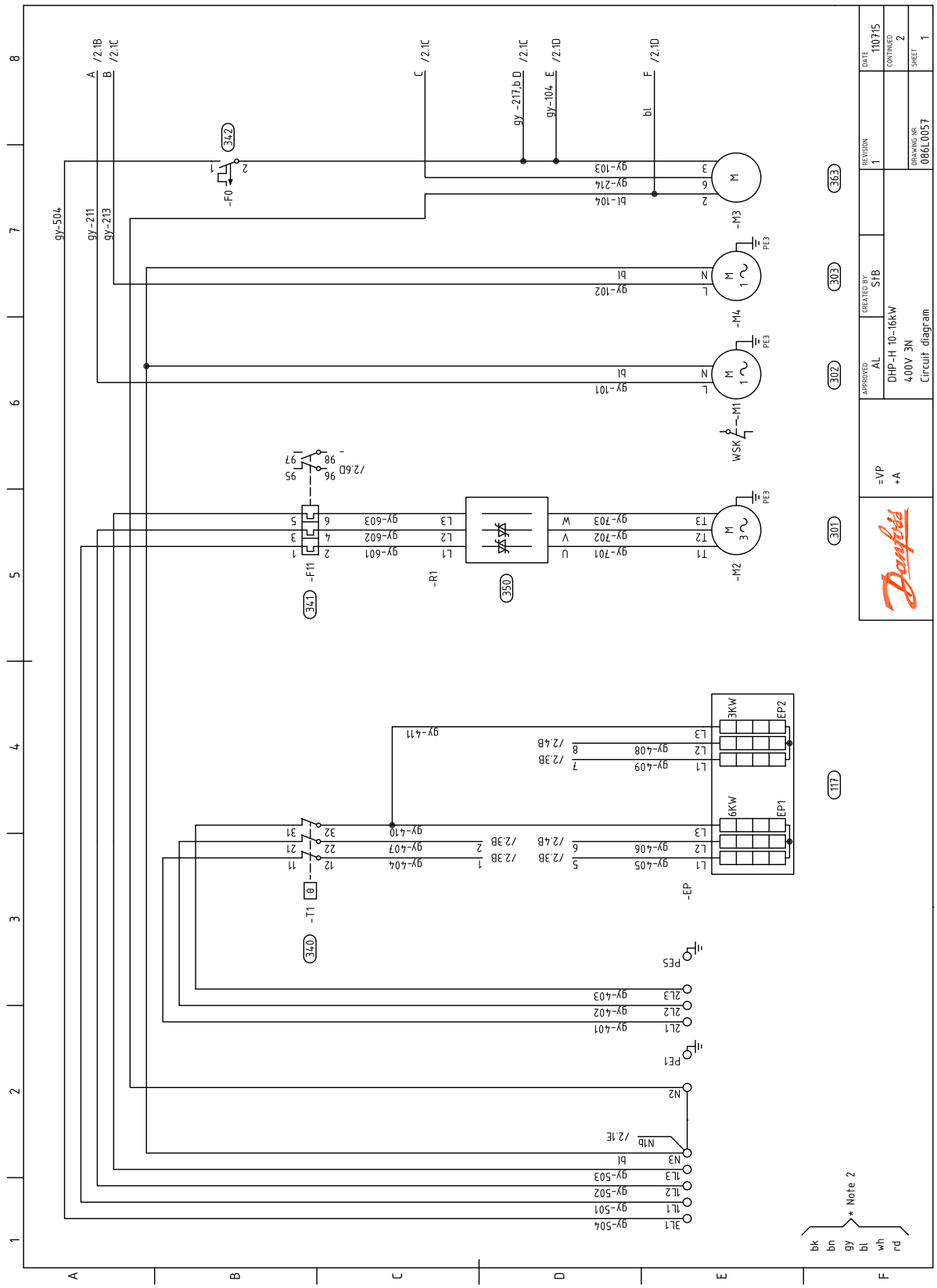
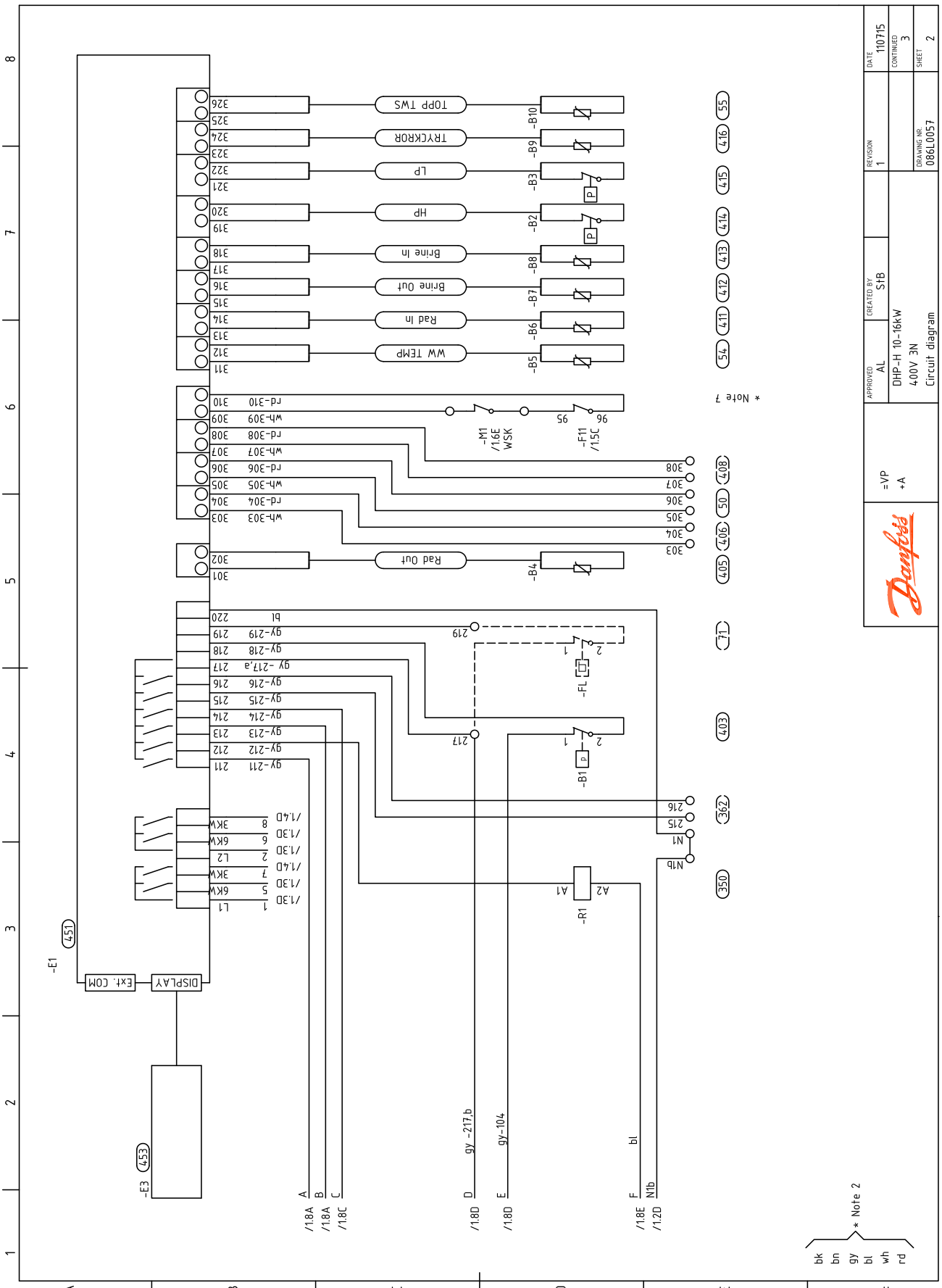
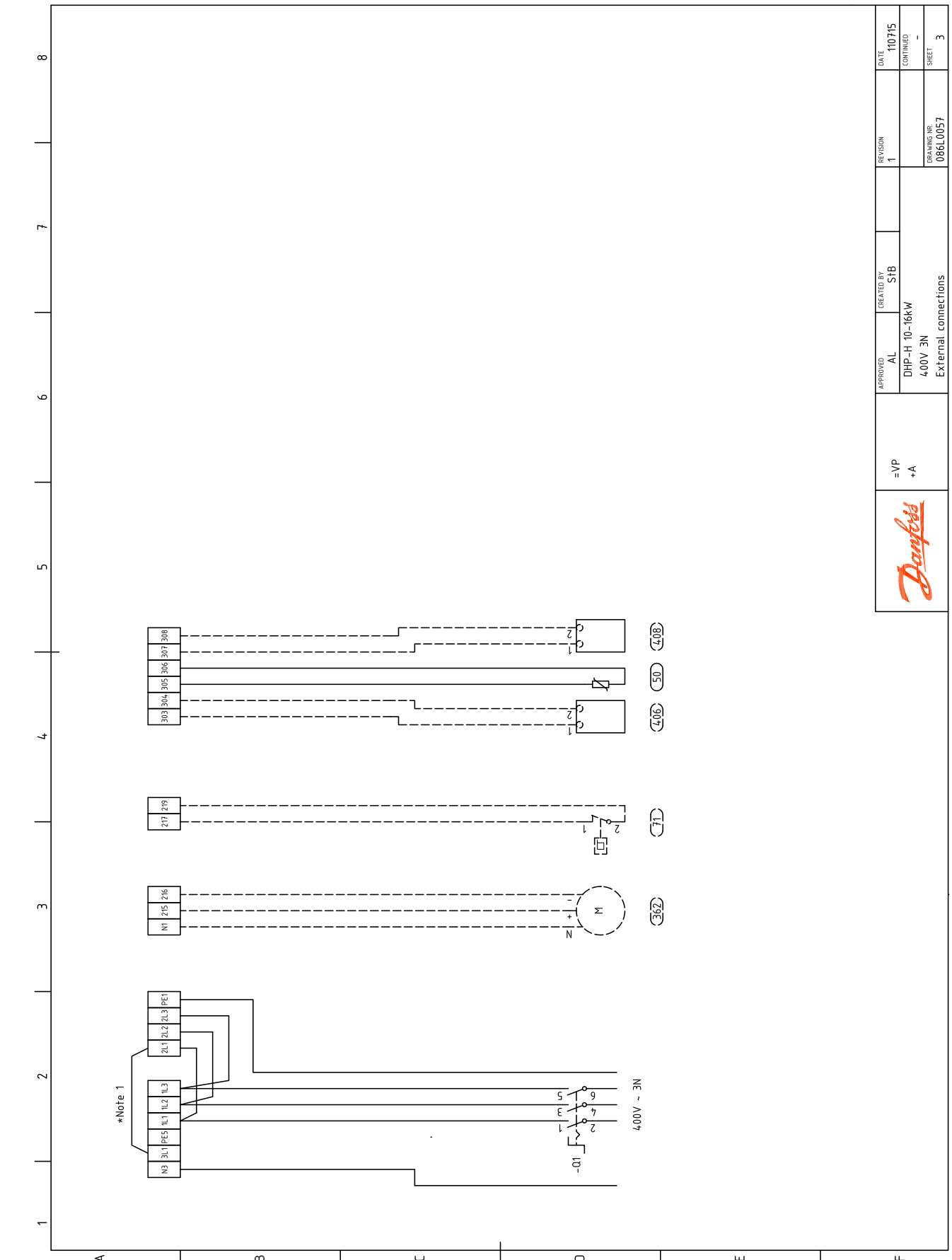
REVISION 1
DRAWING NR 086L0056
DATE 110714
CONTINUED -
SHEET 3
DHP-H 6-8kW
400V 3N
External connections
* Note 1
400V ~ 3N
-Q1
M
N
50
71
362
406
408

2.4 DHP-H 10-16kW 400V 3N

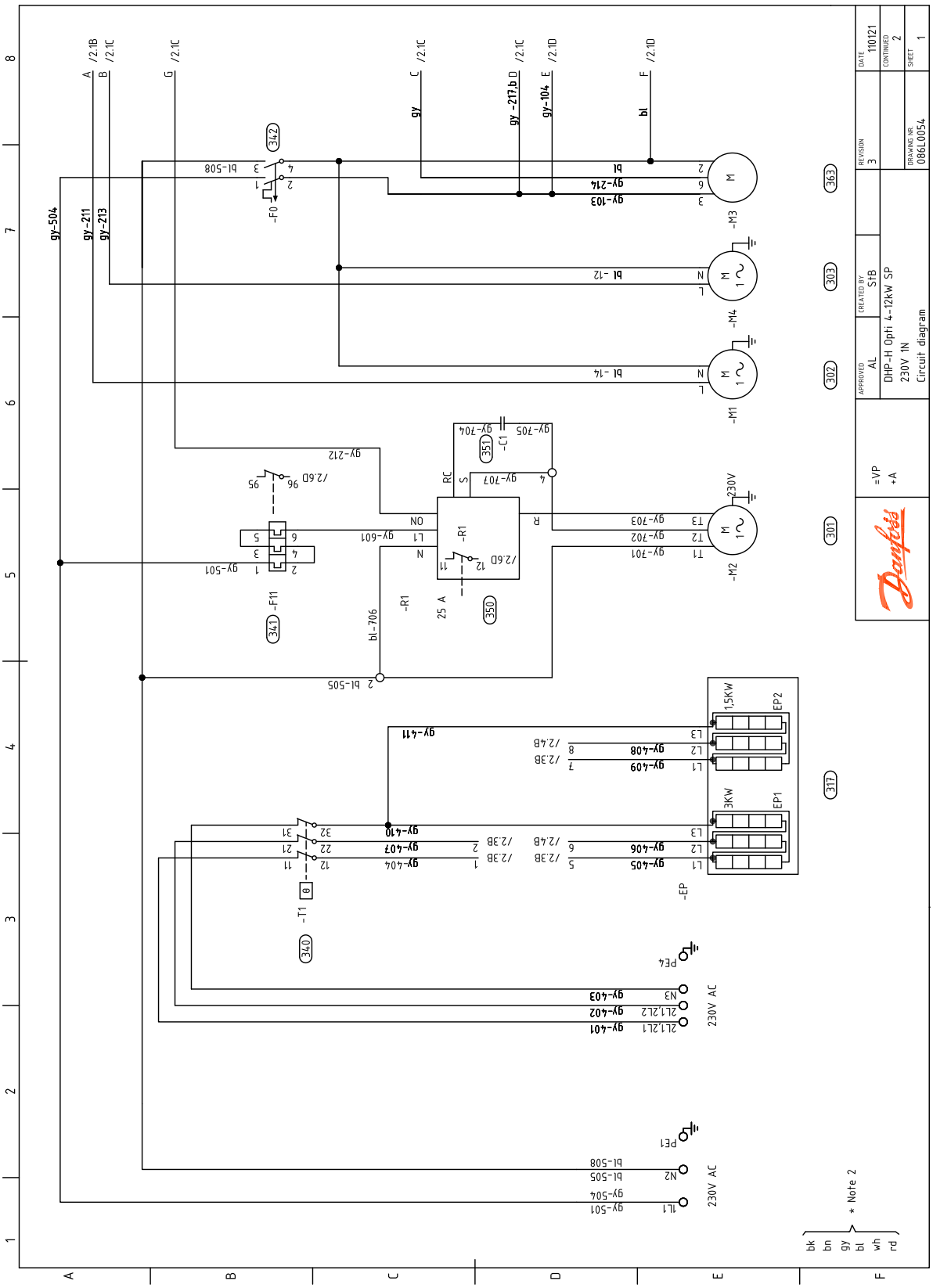


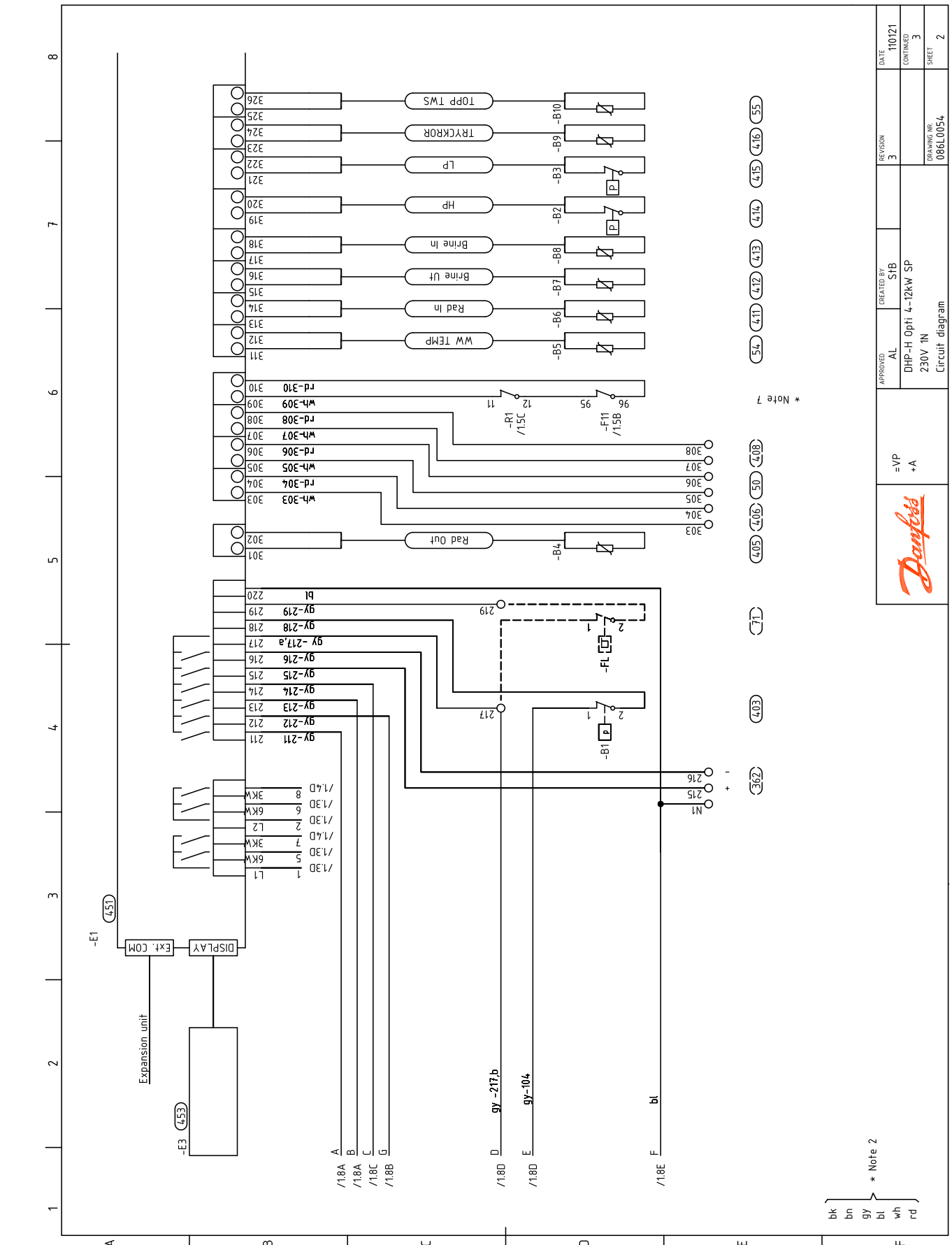

DISPLAY
Ext. COM
-E1
451
-E3
453
-B10
-B9
-B3
-B2
-B8
-B7
-B6
-B5
-B4
TOPP TWS
TRYCKROR
LP
HP
Brine In
Brine Out
Rad In
WW TEMP
Rad Out
-M1
/1.6E
WSK
-F11
/1.5C
-F1
-B1
-R1
A1
A2
N1
N1b
L1
L2
3kW
6kW
* Note 2
bk
bn
gy
bl
wh
rd
* Note 7
APPROVED
AL
CREATED BY
StB
REVISION
1
DATE
110715
CONTINUED
3
SHEET
2
DRAWING NR
086L0057
=VP
+A
DHP-H 10-16kW
400V 3N
Circuit diagram

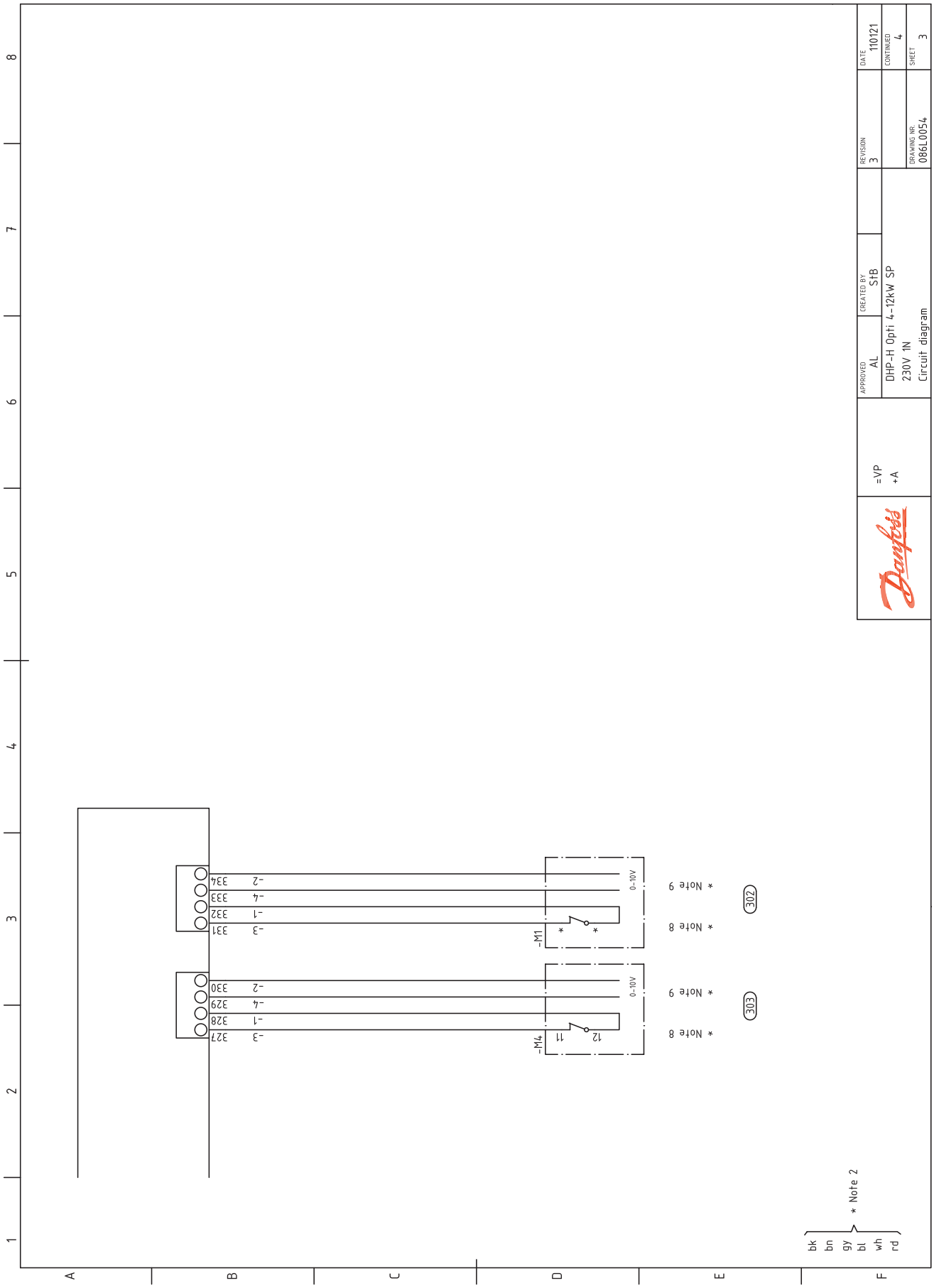
Bedradingsschema DHP-H

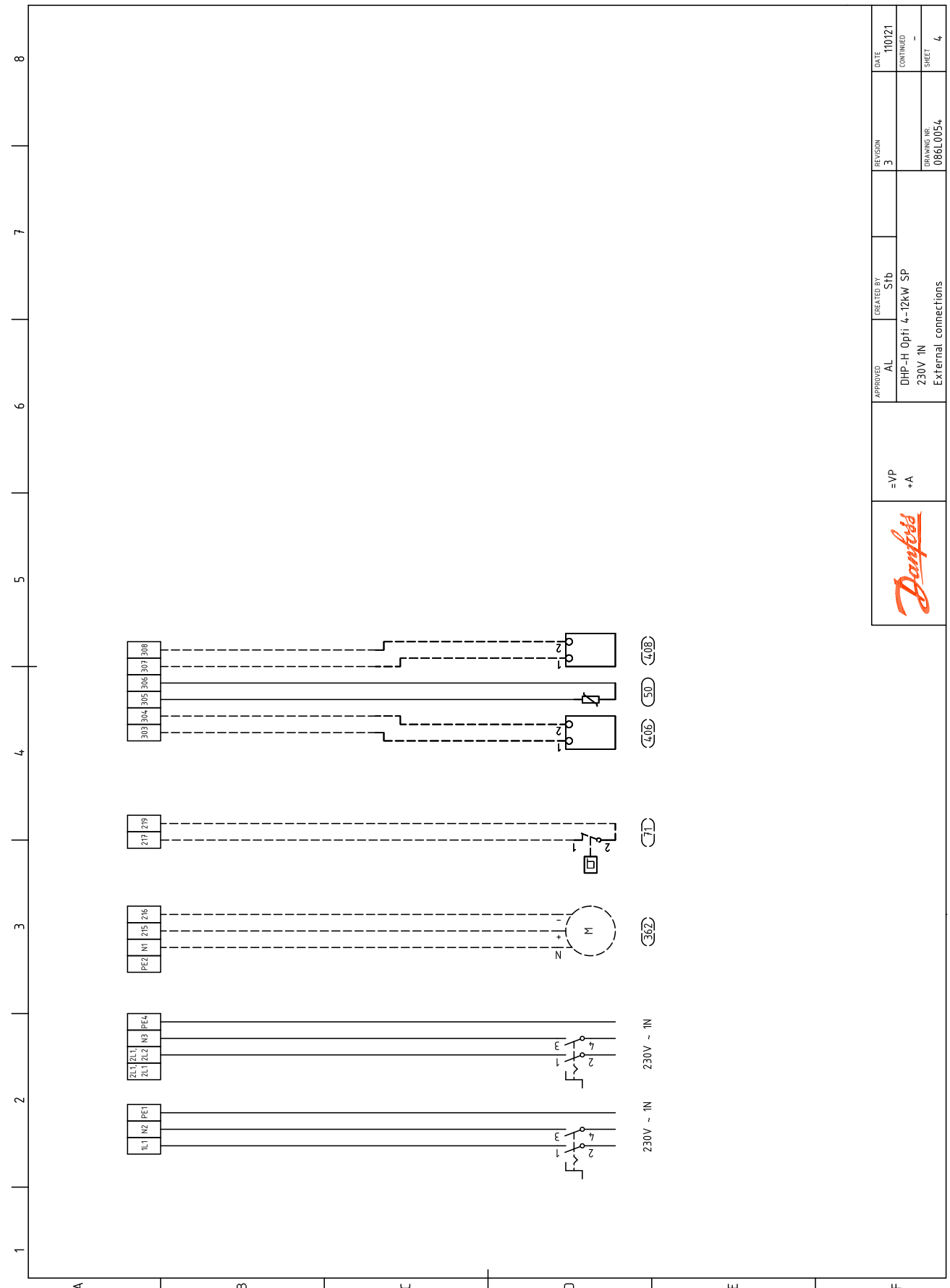


2.5 DHP-H Opti 4-12kW 230V 1N

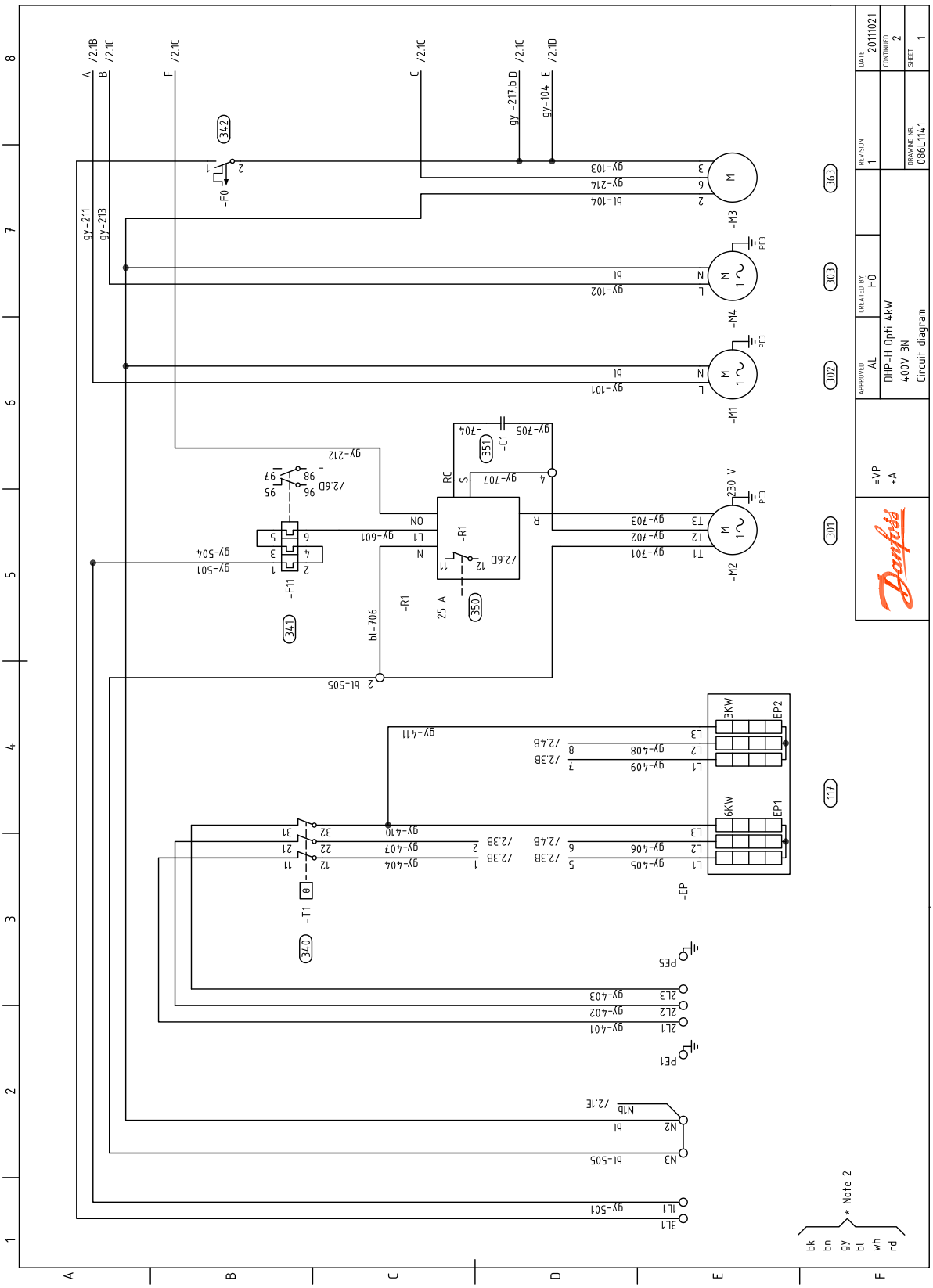


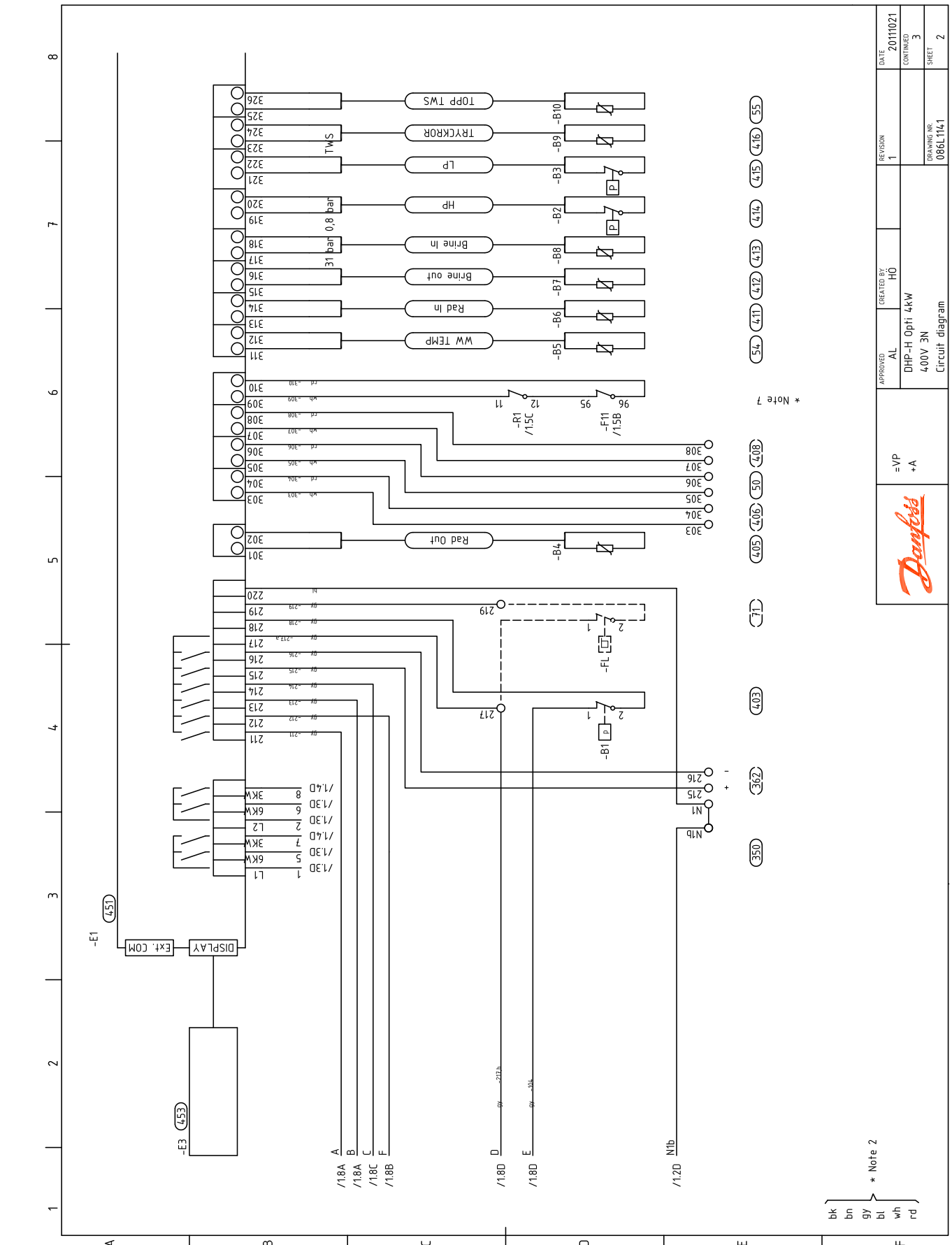

DHP-H Opti 4-12kW SP
230V 1N
Circuit diagram
APPROVED AL
CREATED BY StB
REVISION 3
DRAWING NR. 086L0054
DATE 110121
CONTINUED 3
SHEET 2
=VP +A
Danfoss
-E1
-E3
DISPLAY
Ext. COM
Expansion unit
-B1
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
-B10
-R1 /1.5C
-F11 /1.5B
-FL
WW TEMP
Rad In
Brine Ut
Brine In
HP
LP
TRYCKROR
TOPP TWS
Rad Out
* Note 7
* Note 2
Danfoss Heating Solutions
VWIFF110
19

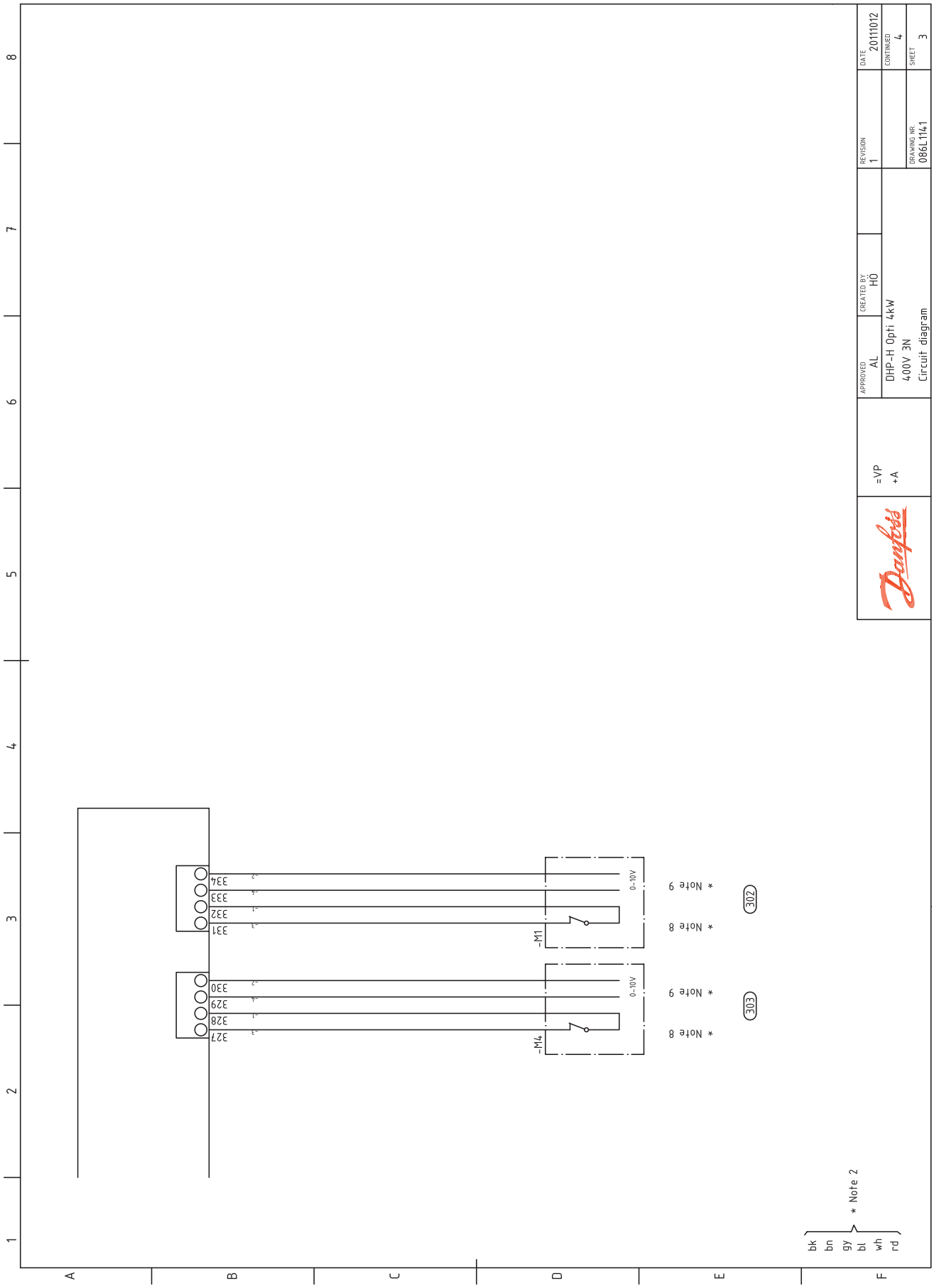

DHP-H Opti 4-12kW SP
230V 1N
Circuit diagram
=VP
+A
APPROVED AL
CREATED BY SHB
REVISION 3
DRAWING NR. 086L0054
DATE 110121
CONTINUED 4
SHEET 3
-M1
-M4
0-10V
* Note 2
* Note 8
* Note 9
302
303
bk
bn
gy
bl
wh
rd


DATE 110121
CONTINUED -
SHEET 4
REVISION 3
DRAWING NR. 086L0054
APPROVED AL
CREATED BY Stb
DHP-H Opti 4-12kW SP
230V 1N
External connections
=VP
+A
303 304 305 306 307 308
406 50 408
217 219
71
PE2 N1 215 216
362
2L1 2L1 2L1 N3 PE4
230V ~ 1N
1L1 N2 PE1
230V ~ 1N

2.6 DHP-H Opti 4kW 400V 3N




DHP-H Opti 4kW
400V 3N
Circuit diagram
DATE 20111021
CONTINUED 3
SHEET 2
REVISION 1
DRAWING NR. 086L1141
APPROVED AL
CREATED BY HÖ
=VP
+A
-E1
-E3
DISPLAY
Ext. COM
-B1
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
-B10
-FL
-R1
-F11
WW TEMP
Rad In
Brine out
Brine In
HP
LP
TRYCKROR
TOPP TWS
TWS
0,8 bar
31 bar
* Note 2
* Note 7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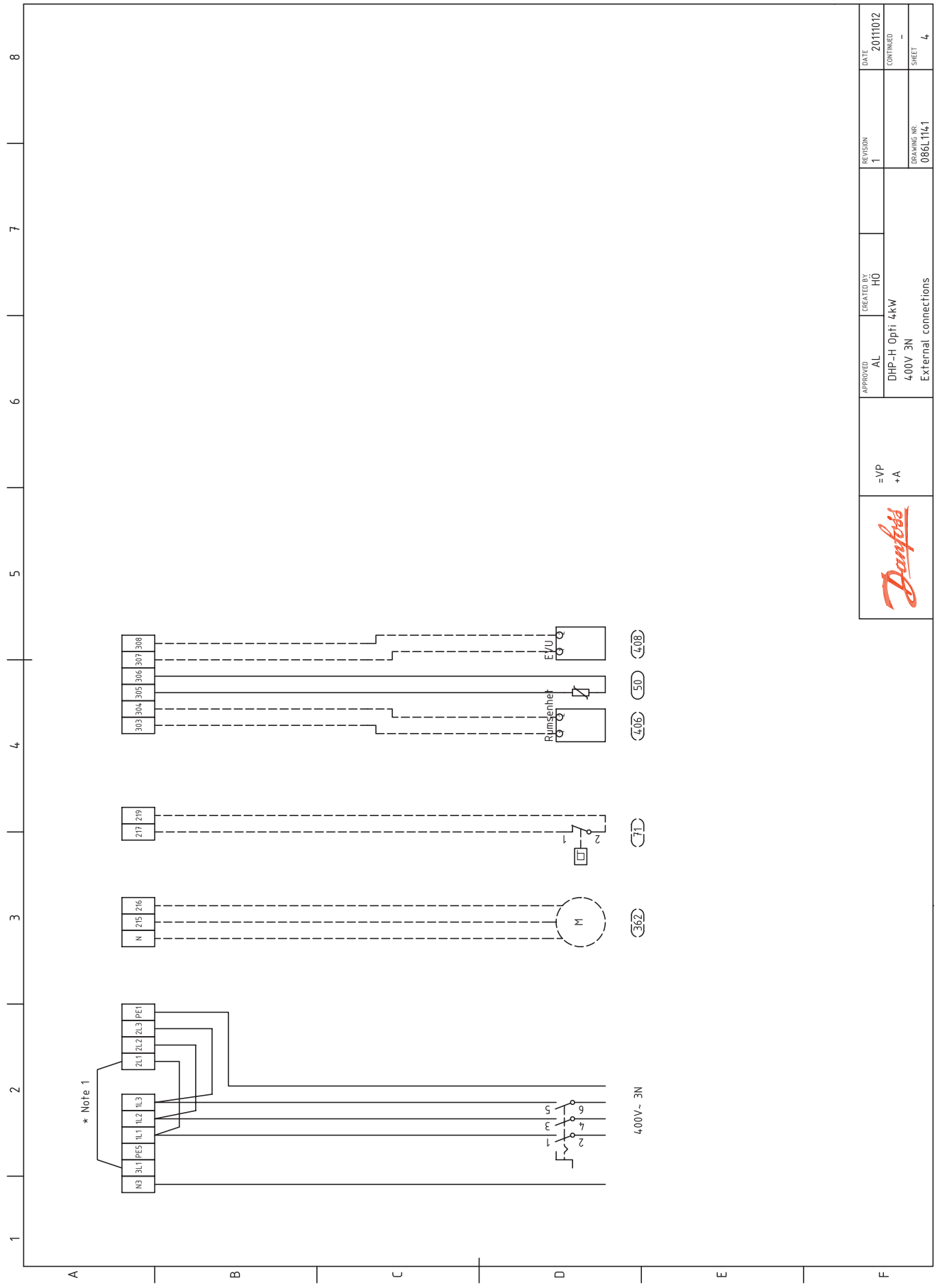
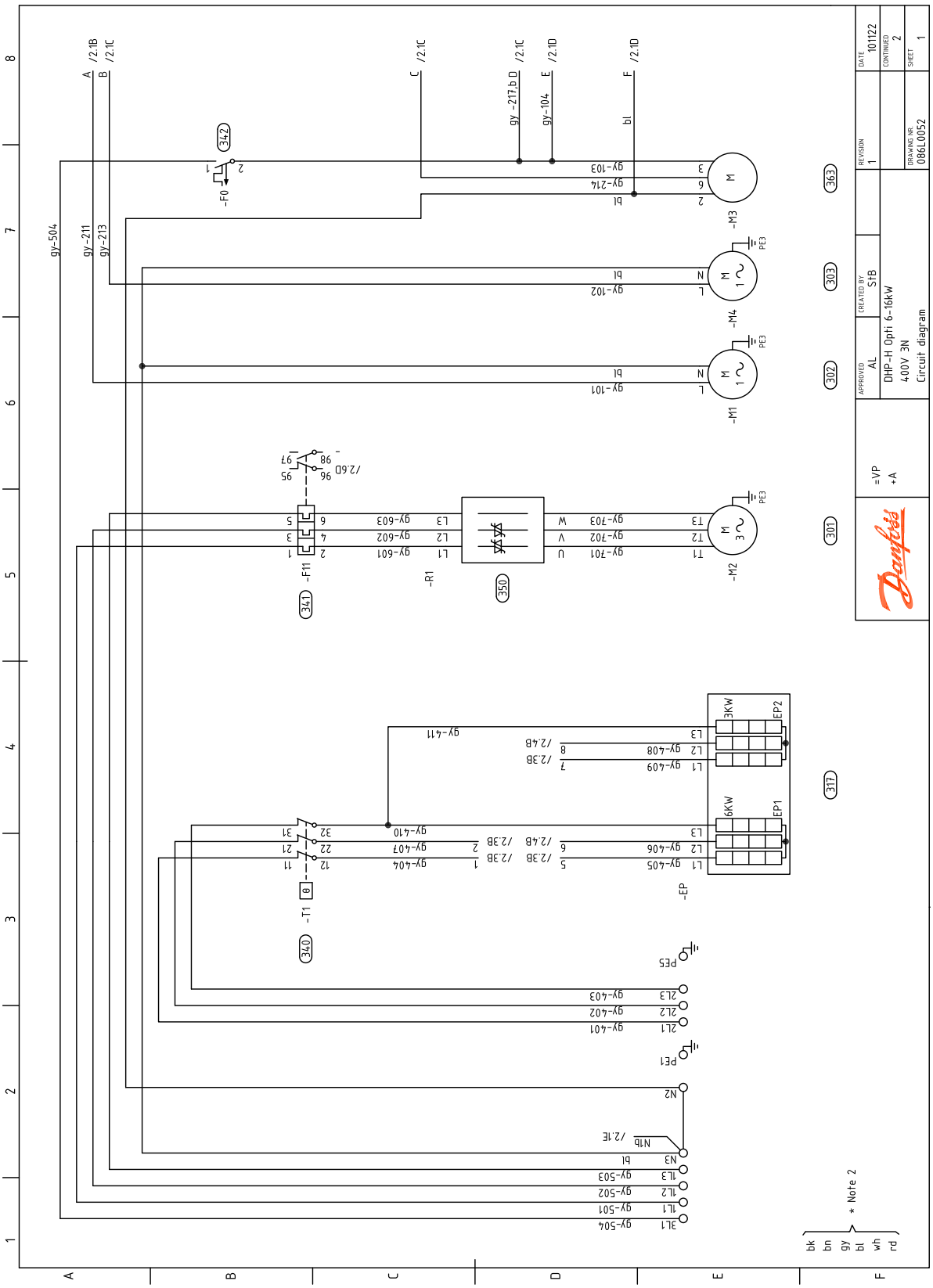
CONTINUED 4
SHEET 3
REVISION 1
DRAWING NR 0861.1141
APPROVED AL
CREATED BY HÖ
DHP-H Opti 4kW
400V 3N
Circuit diagram
=VP
+A
-M1
-M4
0-10V
* Note 9
* Note 8
302
303
* Note 2
bk
bn
gy
bl
wh
rd

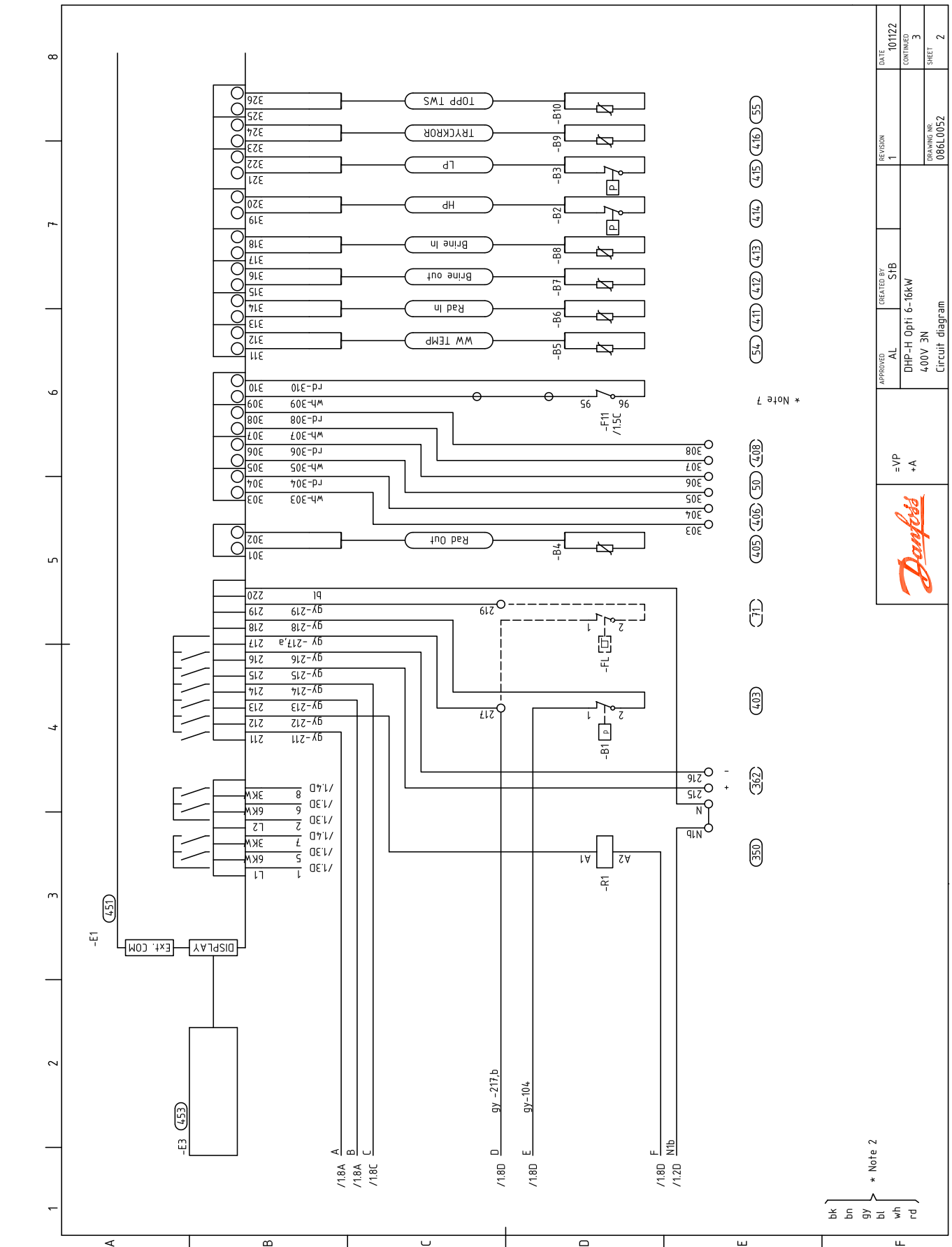
Bedradingsschema DHP-H

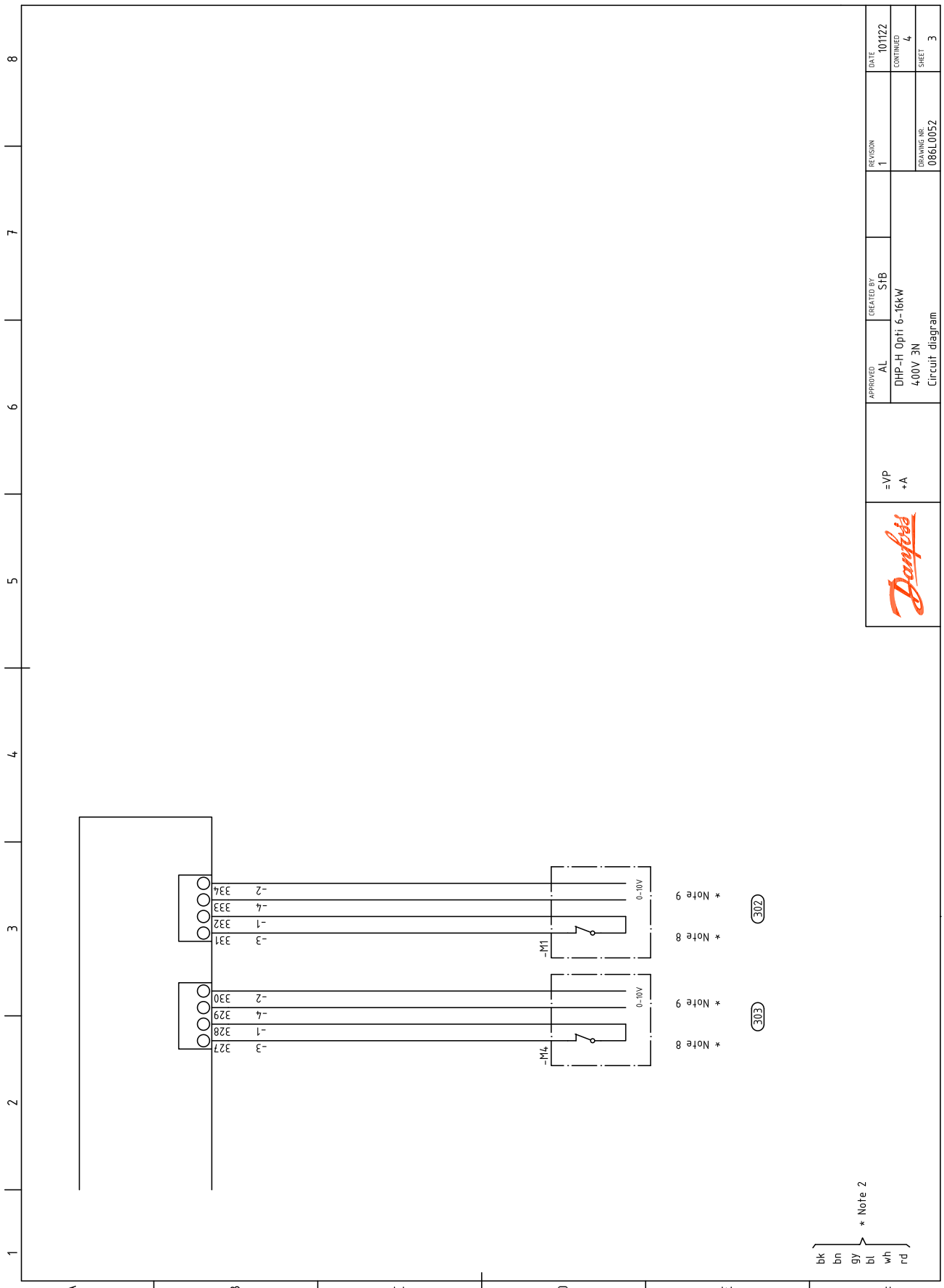


2.7 DHP-H Opti 6-16kW 400V 3N

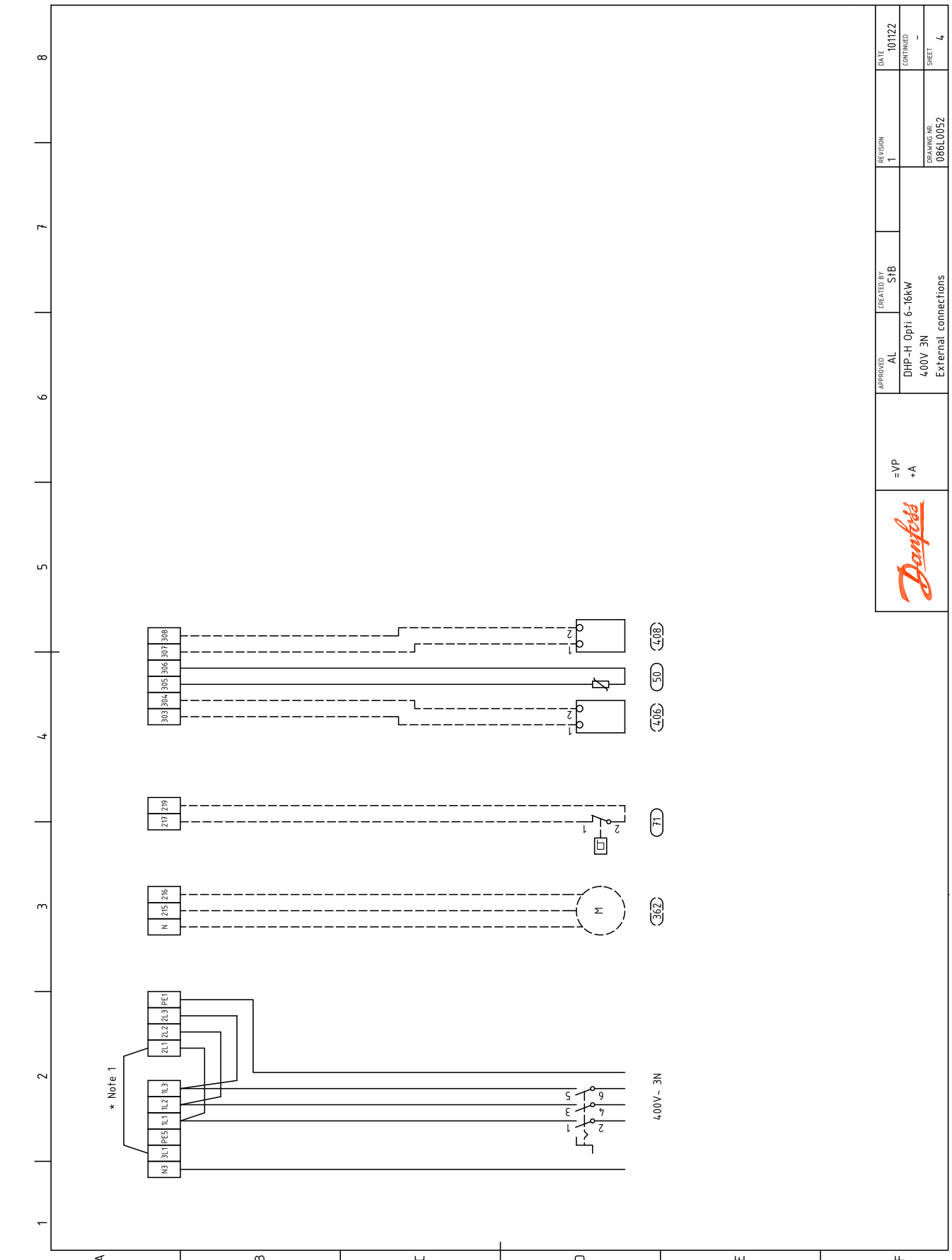


Bedradingsschema DHP-H

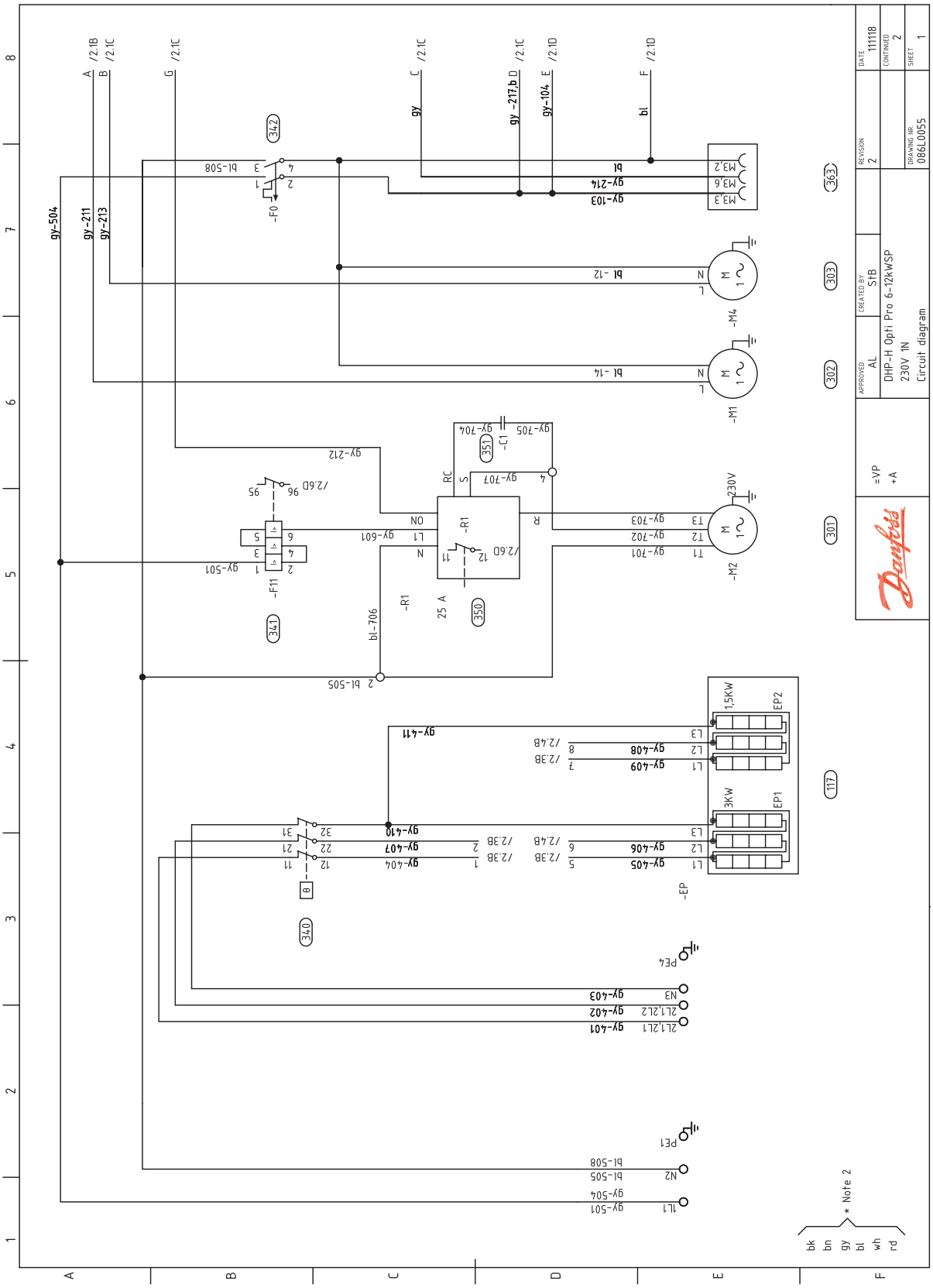


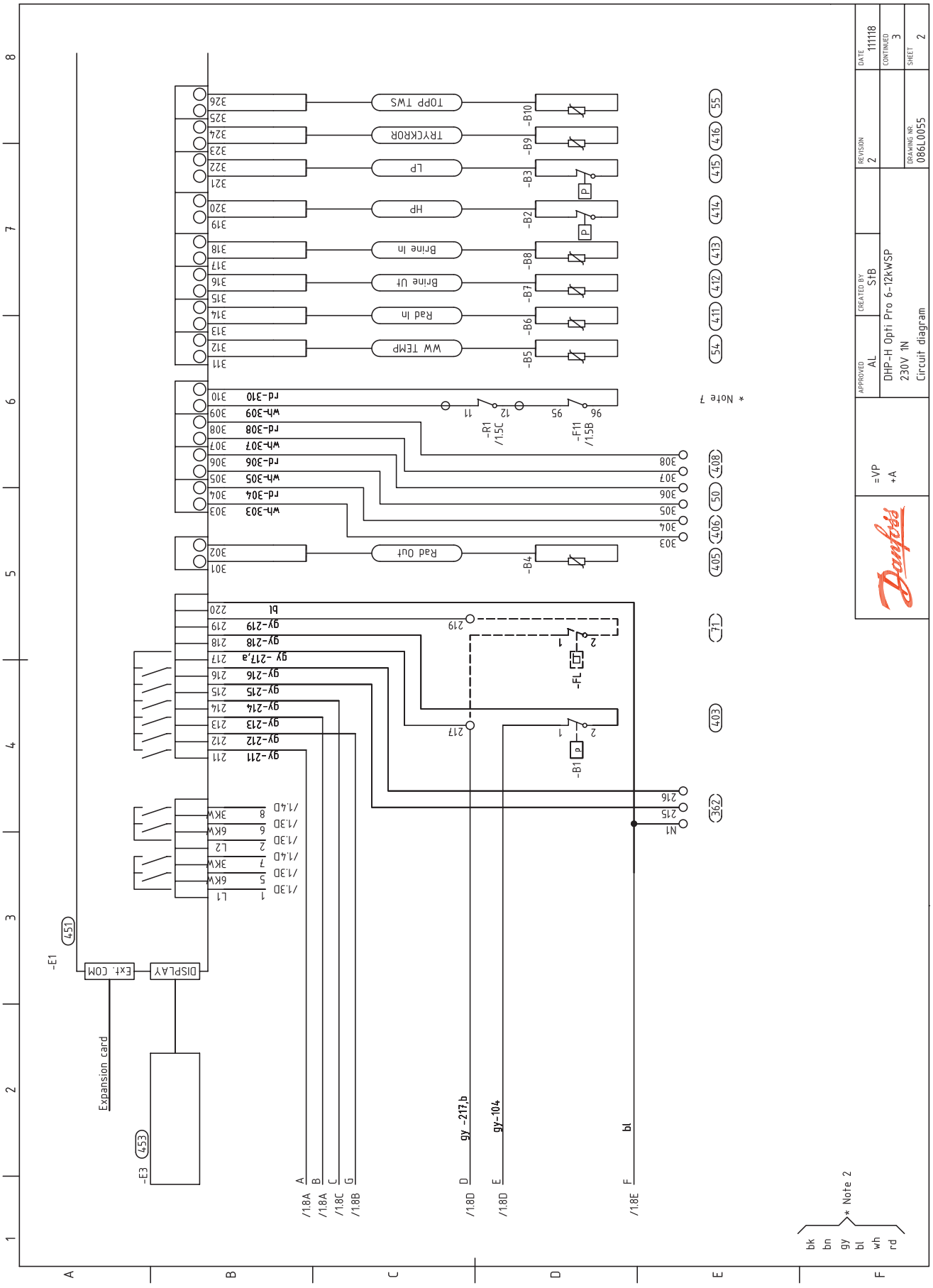

DHP-H Opti 6-16kW
400V 3N
Circuit diagram
APPROVED AL
CREATED BY StB
REVISION 1
DRAWING NR. 086L0052
DATE 101122
CONTINUED 4
SHEET 3
=VP
+A
-M1
-M4
0-10V
* Note 8
* Note 9
302
303
* Note 2
bk
bn
gy
bl
wh
rd

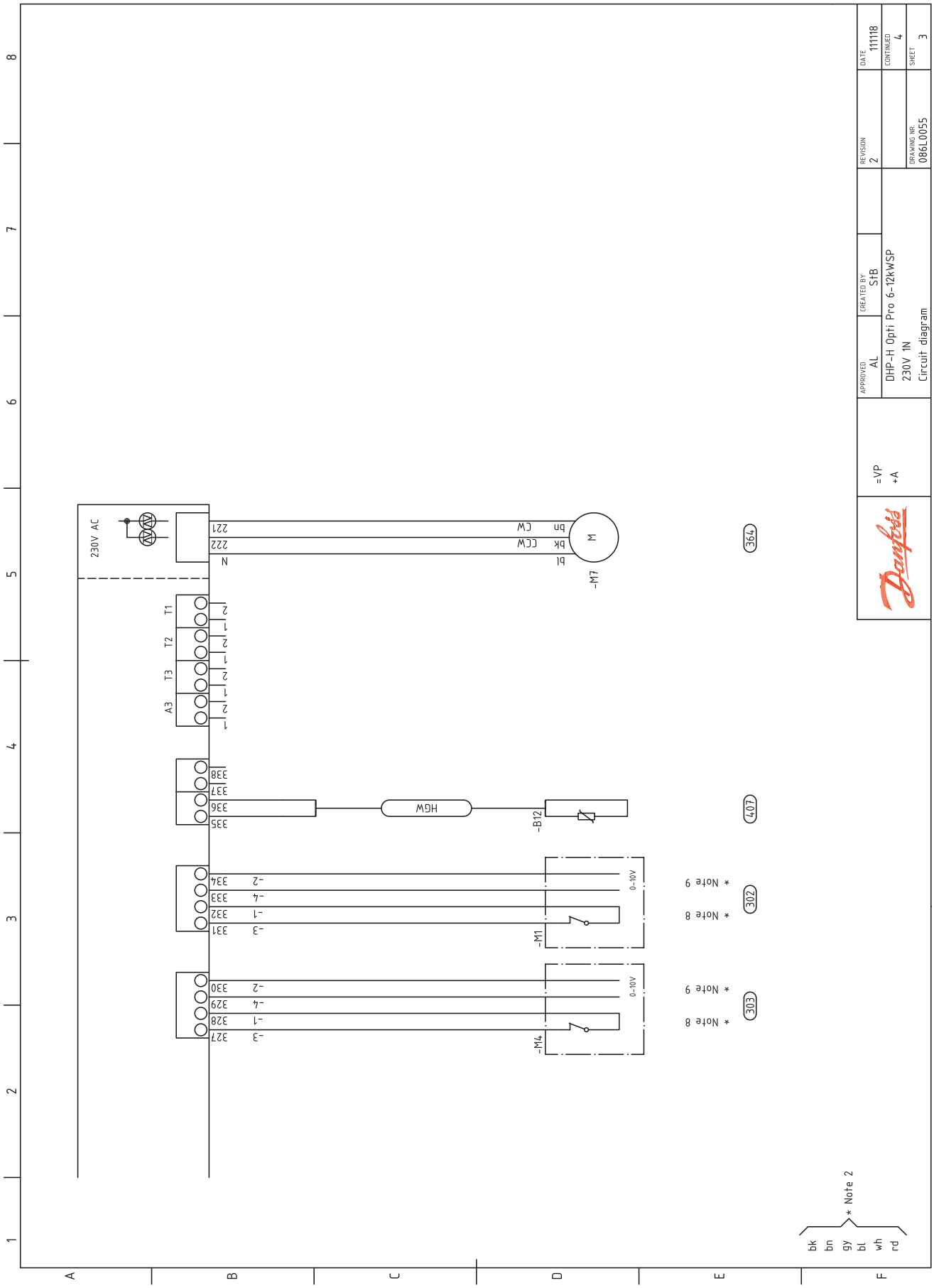
Bedradingsschema DHP-H

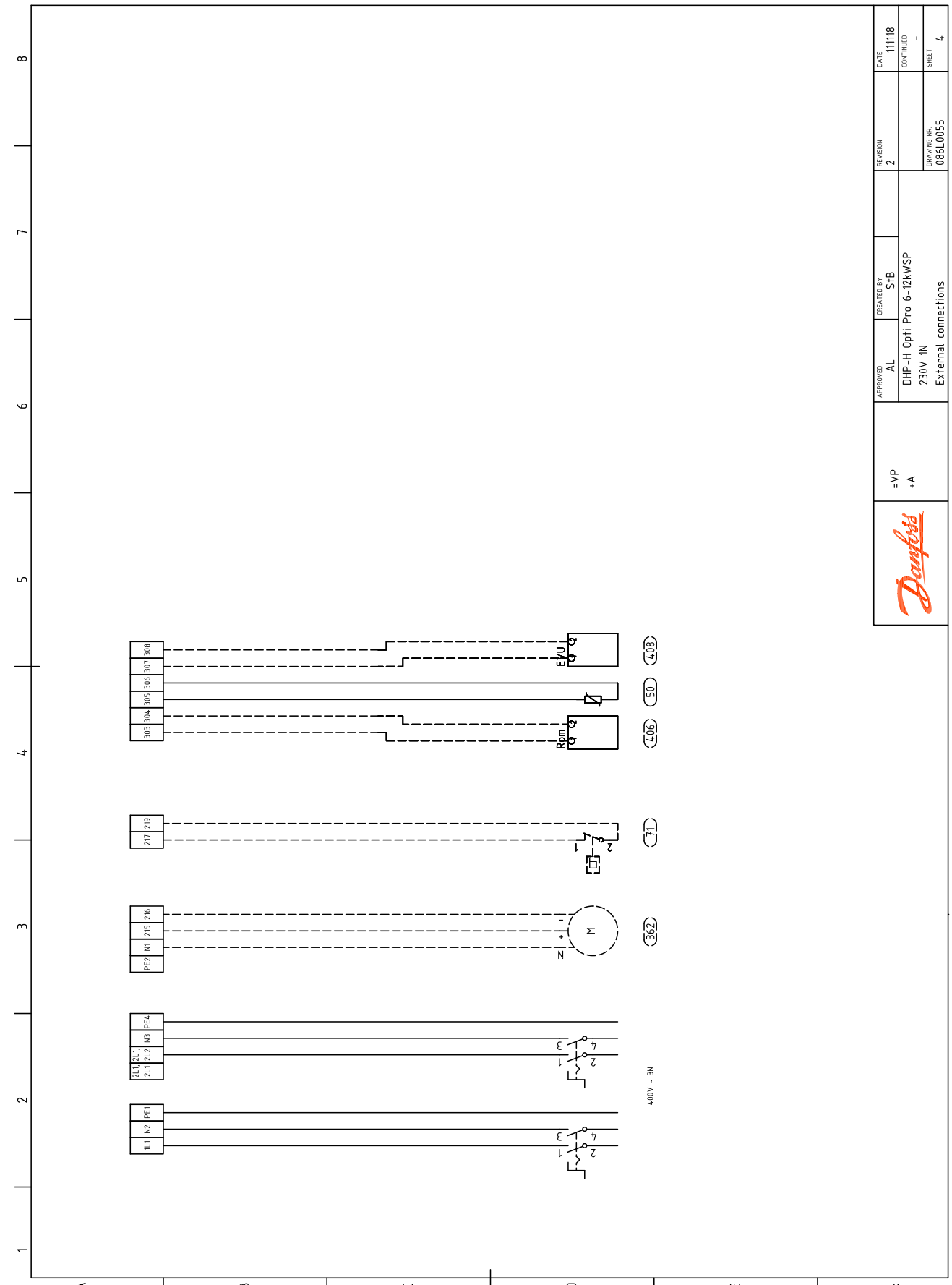


2.8 DHP-H Opti Pro 6-12kW 230V 1N




DHP-H Opti Pro 6-12kWSP
230V 1N
Circuit diagram
APPROVED AL
CREATED BY StB
REVISION 2
DRAWING NR 0861.0055
DATE 111118
CONTINUED 3
SHEET 2
=VP +A
-E1
-E3
Expansion card
DISPLAY
Ext. COM
-B1
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
-B10
-F11 /1.5B
-R1 /1.5C
-FL
* Note 7
* Note 2
WW TEMP
Rad In
Brine Ut
Brine In
HP
LP
TRYCKROR
TOPP TWS
Rad Out
gy -217,b
gy-104
bl
bk bn gy bl wh rd


230V AC
N
221
222
CW
CCW
bn
bk
bl
M
-M7
T1
T2
T3
A3
335
336
337
338
HGW
-B12
331
332
333
334
-M1
0-10V
327
328
329
330
-M4
0-10V
* Note 8
* Note 9
* Note 8
* Note 9
364
407
302
303
=VP
+A
APPROVED AL
CREATED BY StB
REVISION 2
DATE 111118
CONTINUED 4
SHEET 3
DRAWING NR. 086L0055
DHP-H Opti Pro 6-12kWSP
230V 1N
Circuit diagram
* Note 2
bk
bn
gy
bl
wh
rd


DATE 111118
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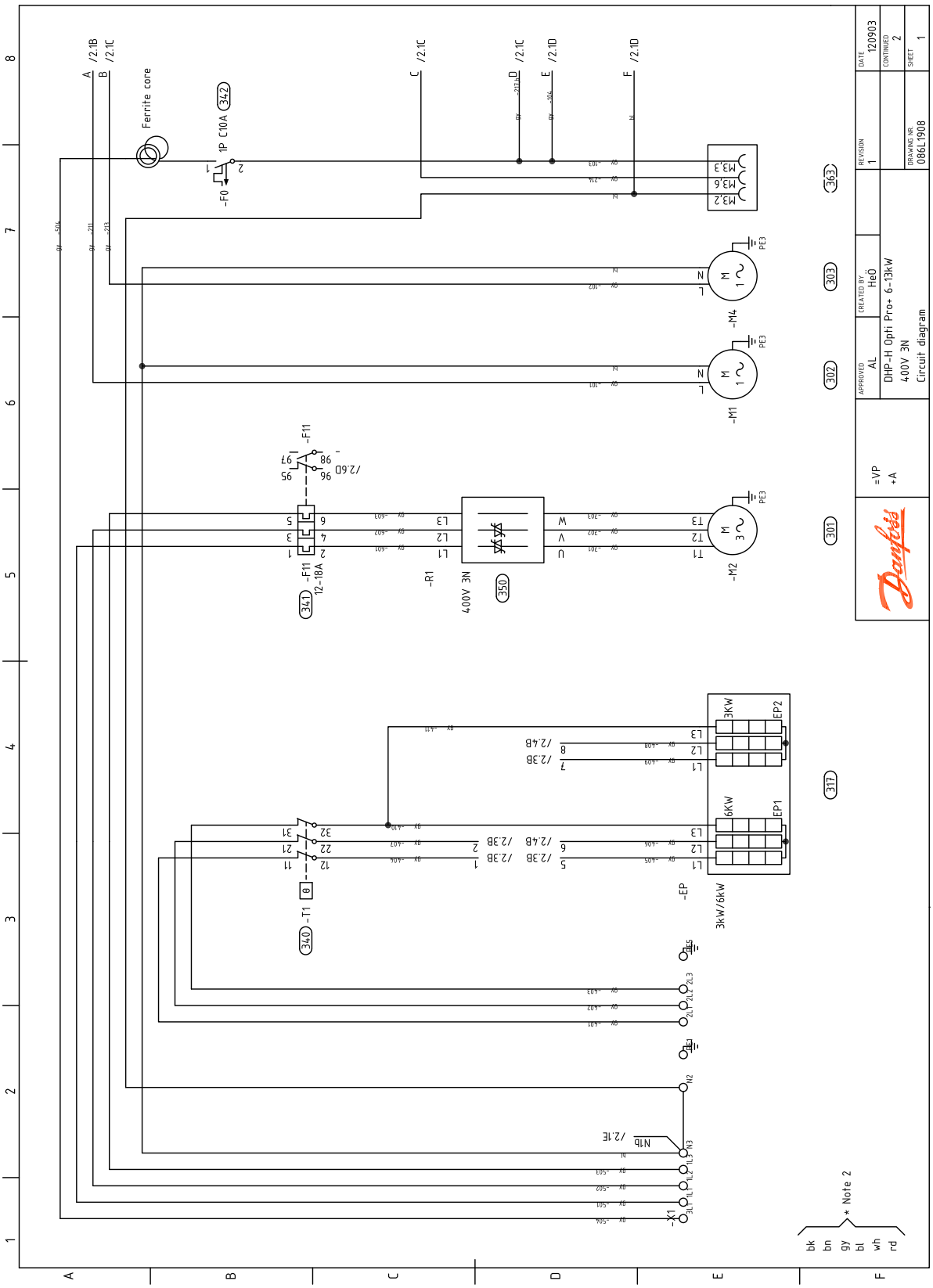
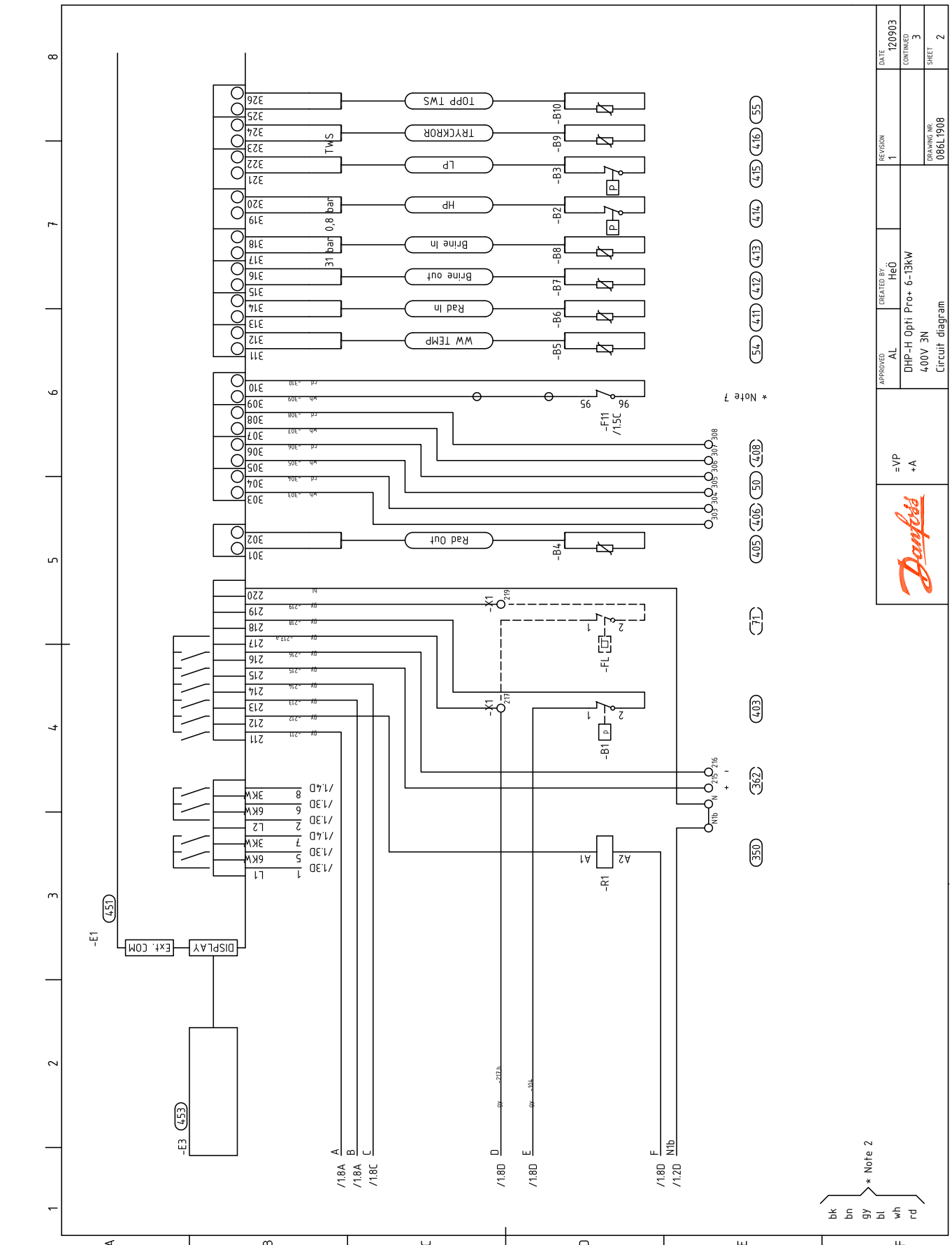
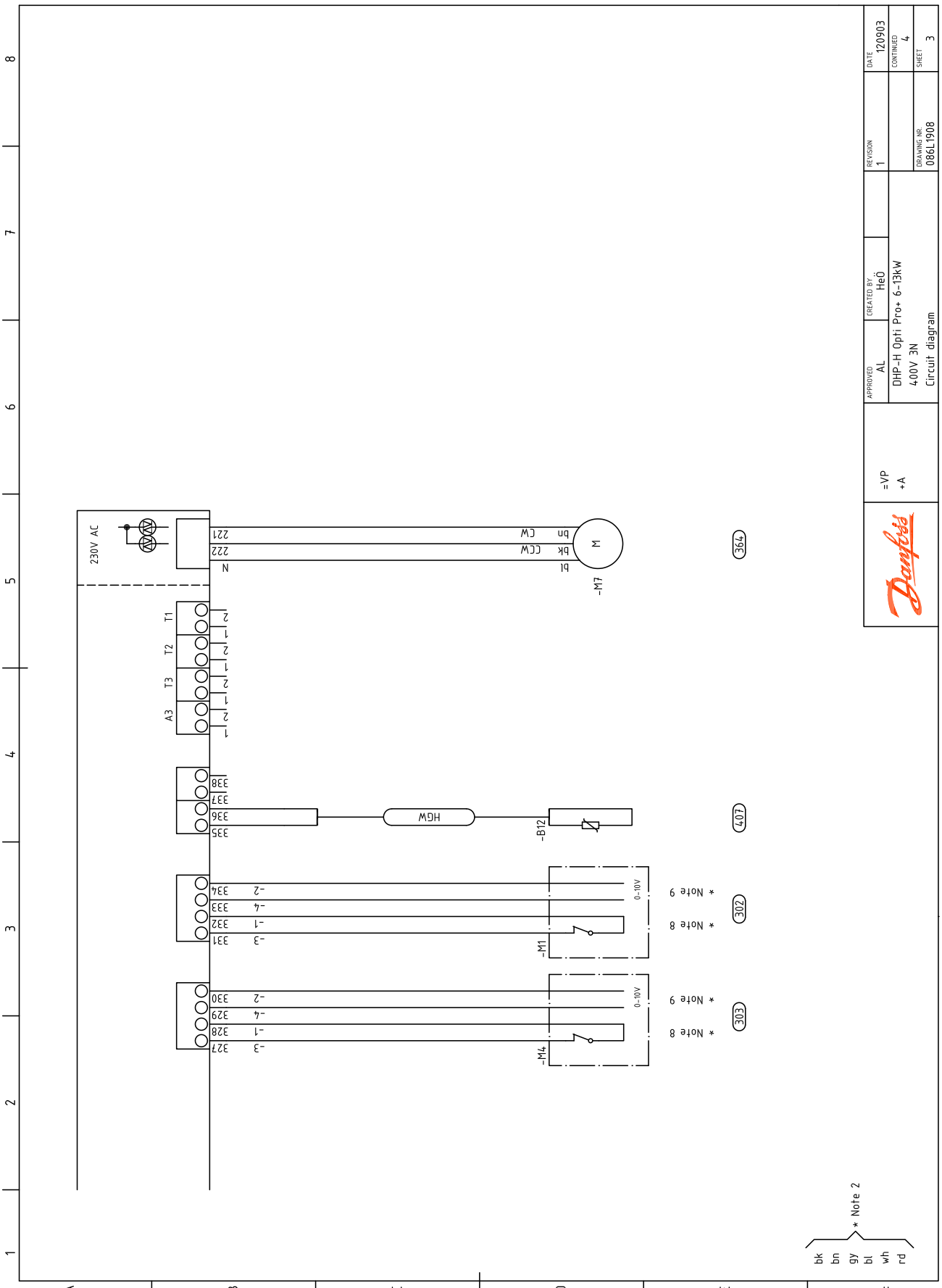
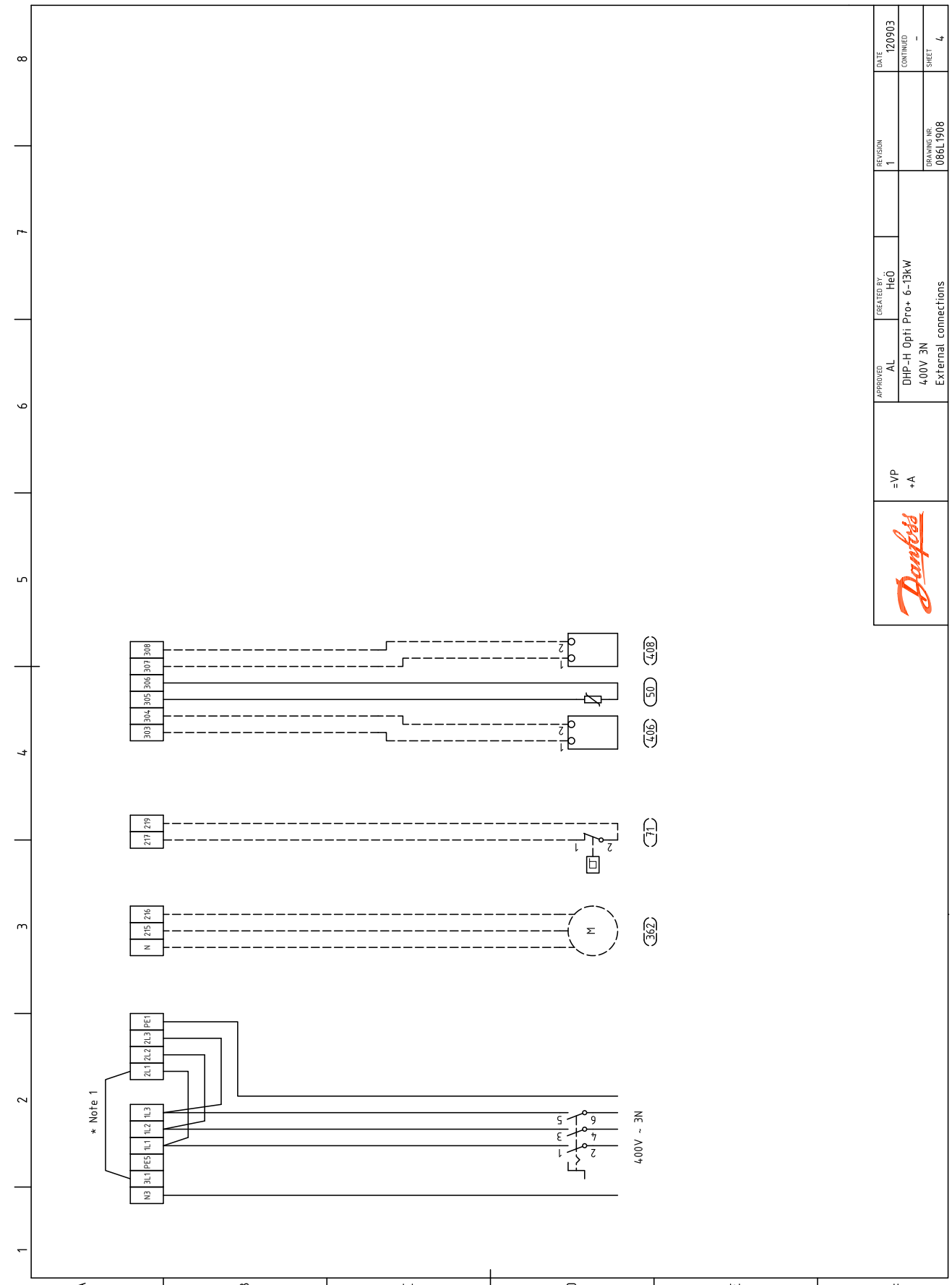
SHEET 4
REVISION 2
DRAWING NR. 086L0055
APPROVED AL
CREATED BY StB
DHP-H Opti Pro 6-12kWSP
230V 1N
External connections
=VP
+A
E/U
Rpm
M
4.00V ~ 3N

2.9 DHP-H Opti Pro+ 6-13kW 400V 3N




DHP-H Opti Pro+ 6-13kW
400V 3N
Circuit diagram
APPROVED AL
CREATED BY HeÖ
DRAWING NR. 086L1908
REVISION 1
DATE 120903
CONTINUED 3
SHEET 2
=VP +A
-E1 DISPLAY Ext. COM
-E3
-B10 TOPP TWS
-B9 TRYCKROR
-B3 LP
-B2 HP
-B8 Brine In
-B7 Brine out
-B6 Rad In
-B5 WW TEMP
-B4 Rad Out
TWS
0,8 bar
31 bar
-F11 /1.5C
* Note 7
-X1
-FL
-B1
-R1
* Note 2
bk bn gy bl wh rd


230V AC
N
221
222
bn CW
bk CCW
bl
M
-M7
364
T1
T2
T3
A3
335
336
337
338
HGW
-B12
407
331
332
333
334
-M1
0-10V
* Note 8
* Note 9
302
327
328
329
330
-M4
0-10V
* Note 8
* Note 9
303
=VP
+A
APPROVED AL
CREATED BY HeO
DHP-H Opti Pro+ 6-13kW
400V 3N
Circuit diagram
REVISION 1
DRAWING NR. 086L1908
DATE 120903
CONTINUED 4
SHEET 3
* Note 2
bk bn gy bl wh rd


DATE 120903
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SHEET 4
REVISION 1
DRAWING NR. 086L1908
APPROVED AL
CREATED BY HeÖ
DHP-H Opti Pro+ 6-13kW
400V 3N
External connections
=VP
+A
* Note 1
400V ~ 3N
M
408
50
406
71
362

Bedradingsschema DHP-H

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